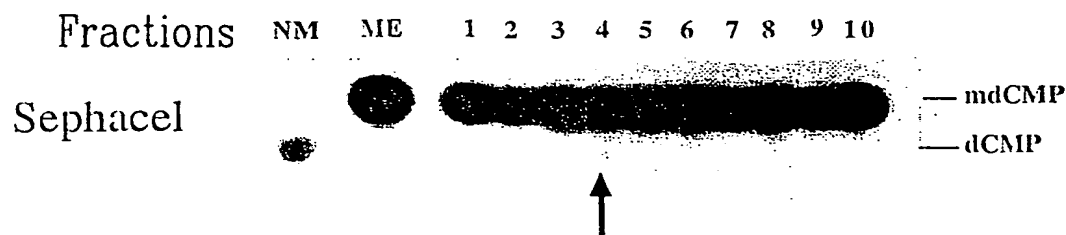
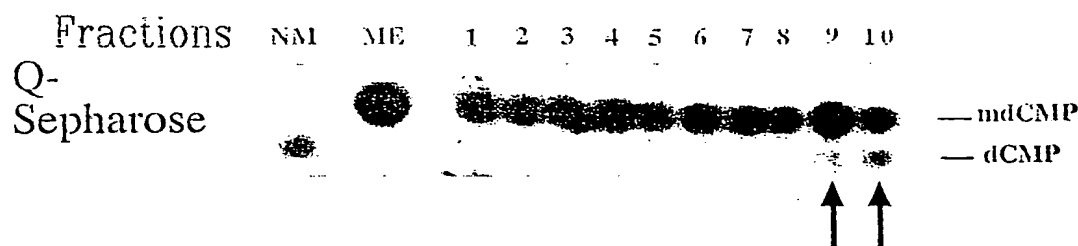
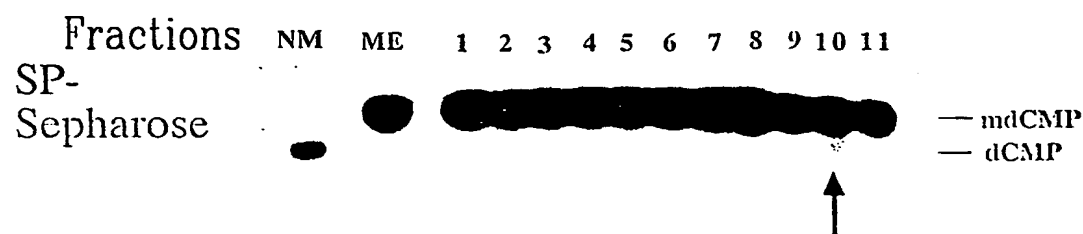
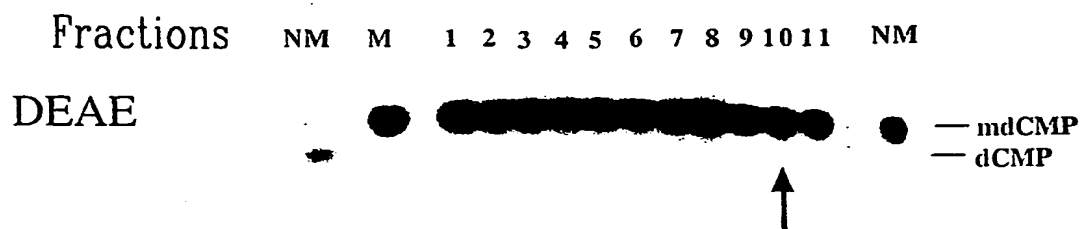
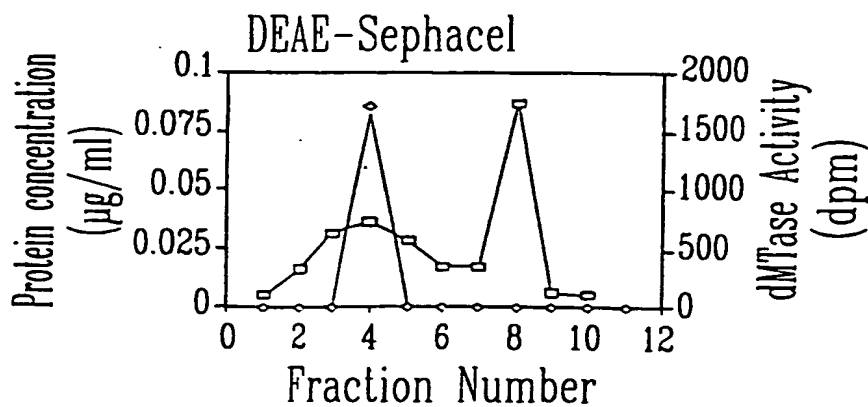
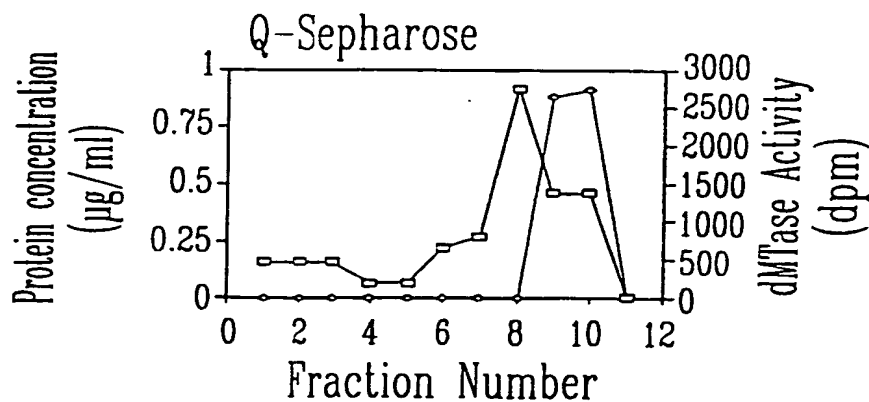
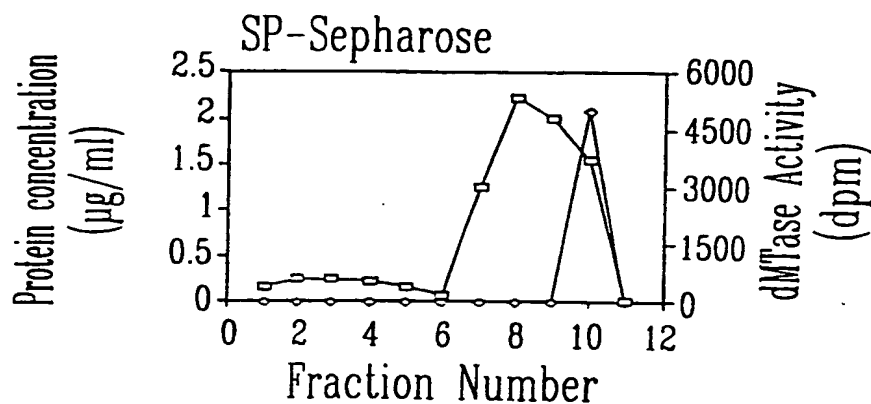
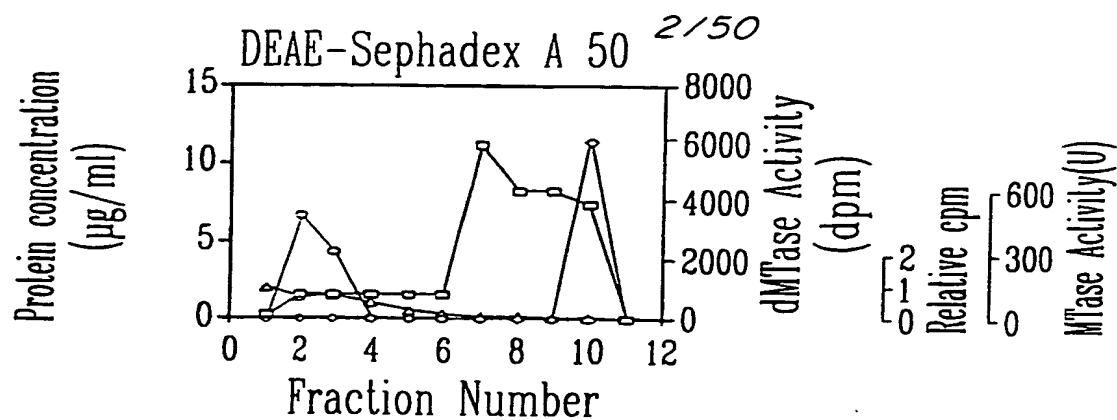


1/50

FIGURE 1A



—mdCMP
—dCMP

Time	mdCMP	dCMP
NM	Single band at top	Single band at top
ME	Single band at top	Single band at top
30 min	Single band at top	Single band at top
45 min	Single band at top	Single band at top
1 h	Single band at top	Single band at top
2 h	Single band at top	Single band at top
3 h	Single band at top	Single band at top
24 h	Multiple bands at various positions	Single band at top

4/50

picomole cytosine formed

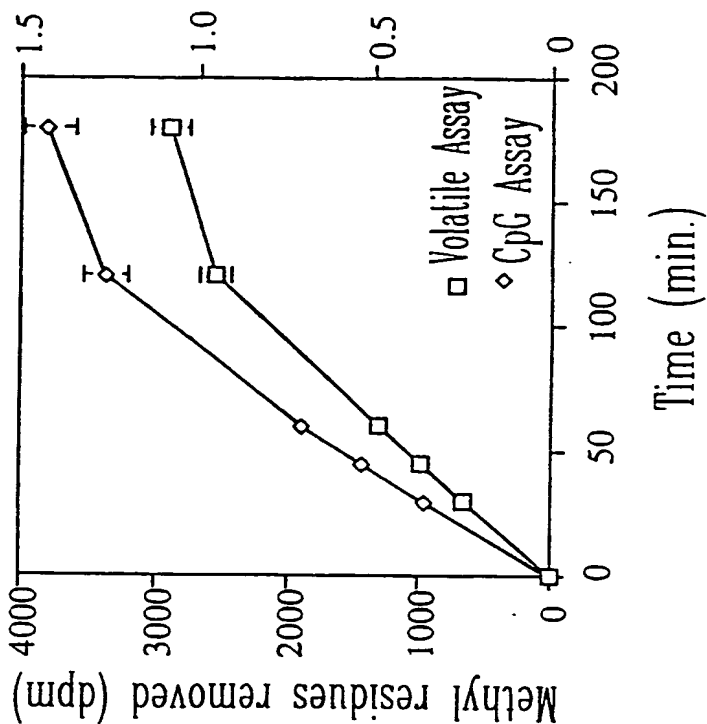


FIG - 2D

dMTase - +
ProteinaseK - +
RNase + - +

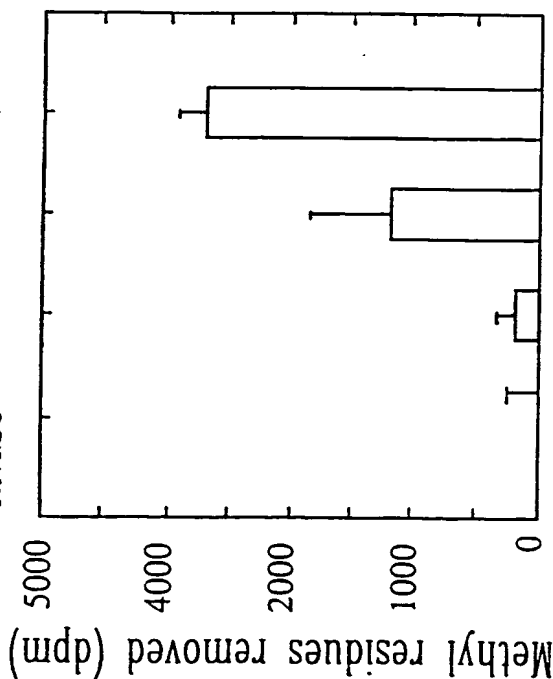


FIG - 2C

005060" 1115560

五五五

THE - 3A

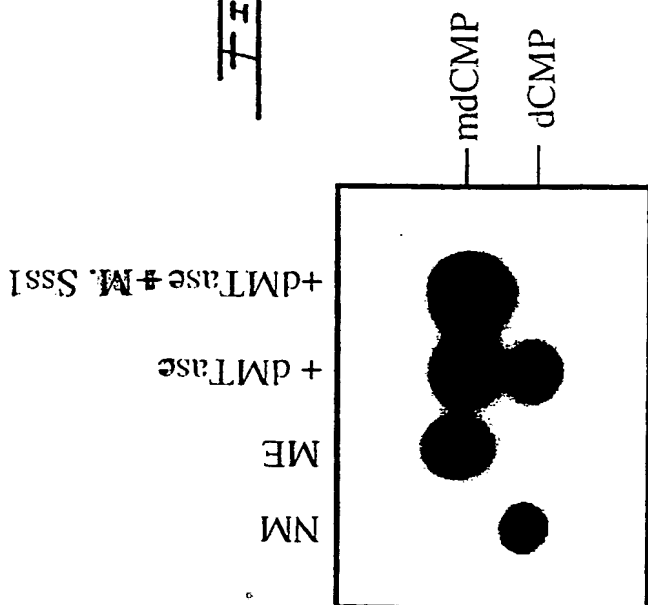
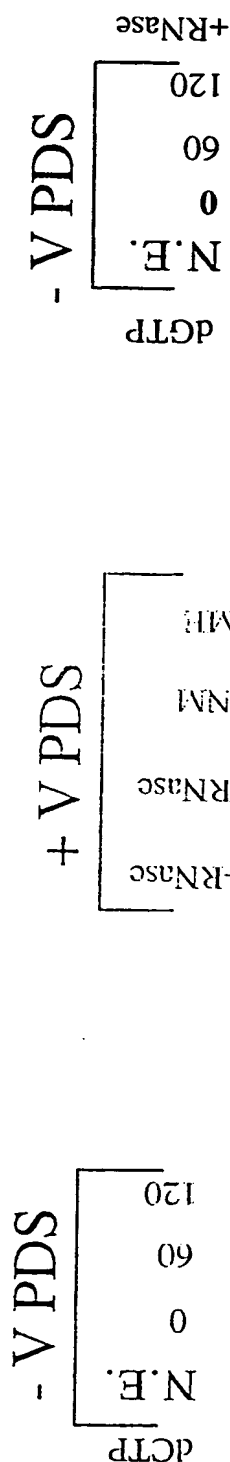


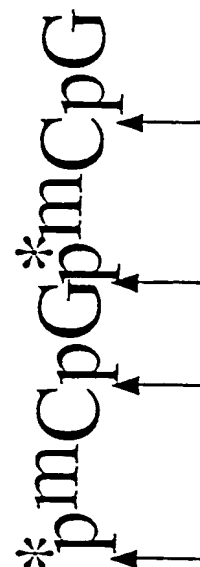
Figure 1: Schematic representation of the four experimental conditions. The figure shows four panels arranged in a 2x2 grid. The columns are labeled '1st' and '2nd' at the bottom. The rows are labeled 'NM' and 'ME' on the left. The panels show the interaction between a cell (represented by a circle) and a cell wall (represented by a shaded area). In the 'NM' row, the cell is outside the cell wall. In the 'ME' row, the cell is inside the cell wall. The '1st' column shows the initial state, and the '2nd' column shows the state after treatment with dMTase and M. SssI. Arrows labeled 'meC' and 'C' indicate the direction of movement or interaction.

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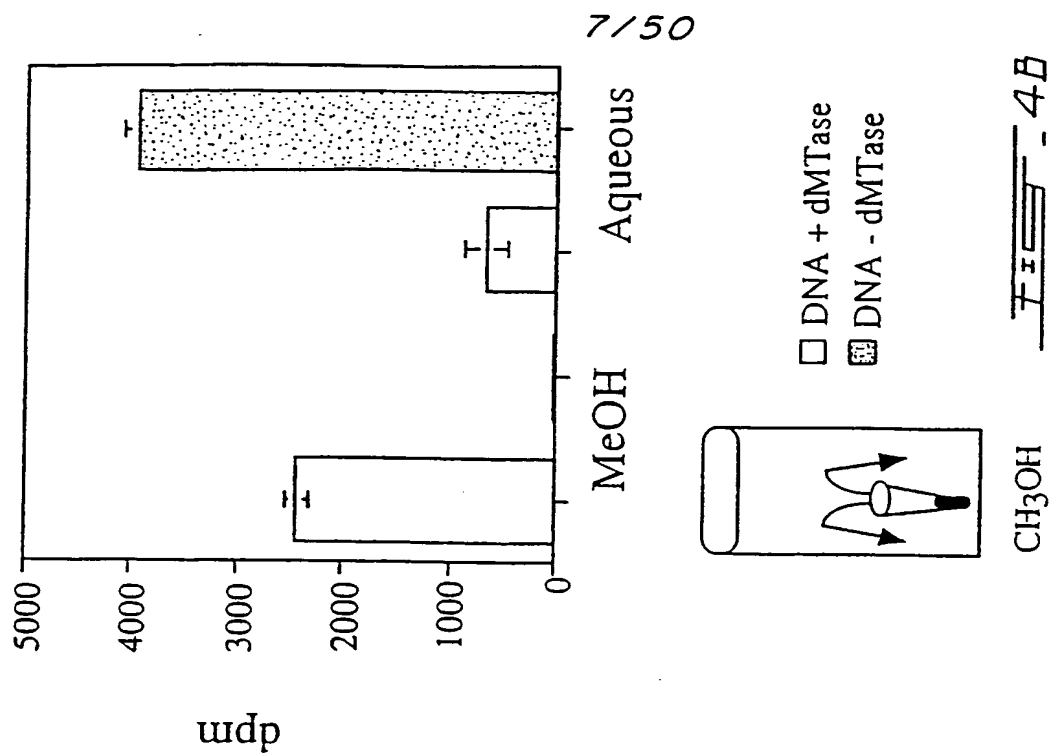
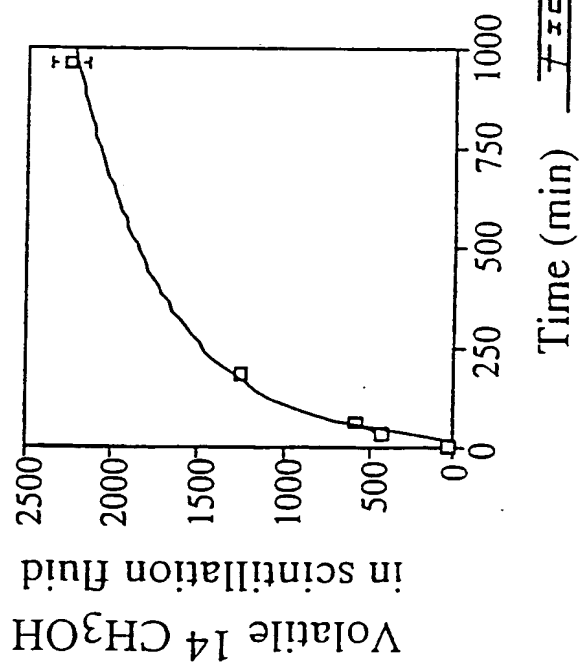
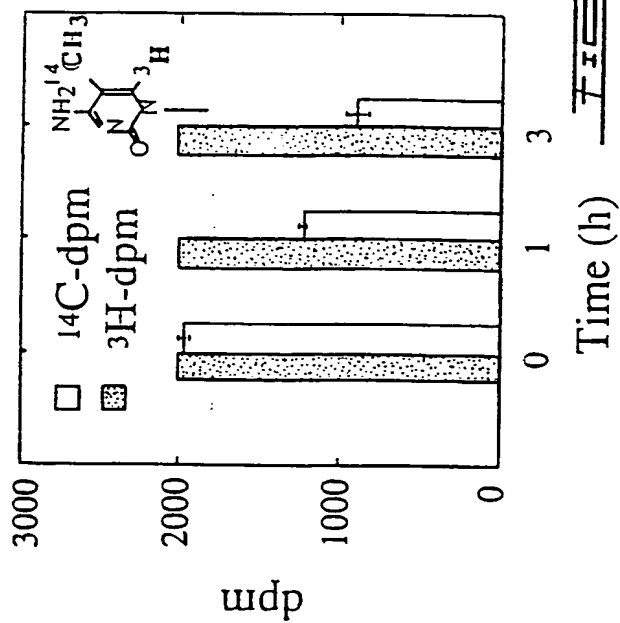
Labeled nucleotide:
[α 32P]-dCTP

Labeled nucleotide:
[α 32P]-dGTP



711-31

009060" in this 500



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8/50

009060" 4F44560

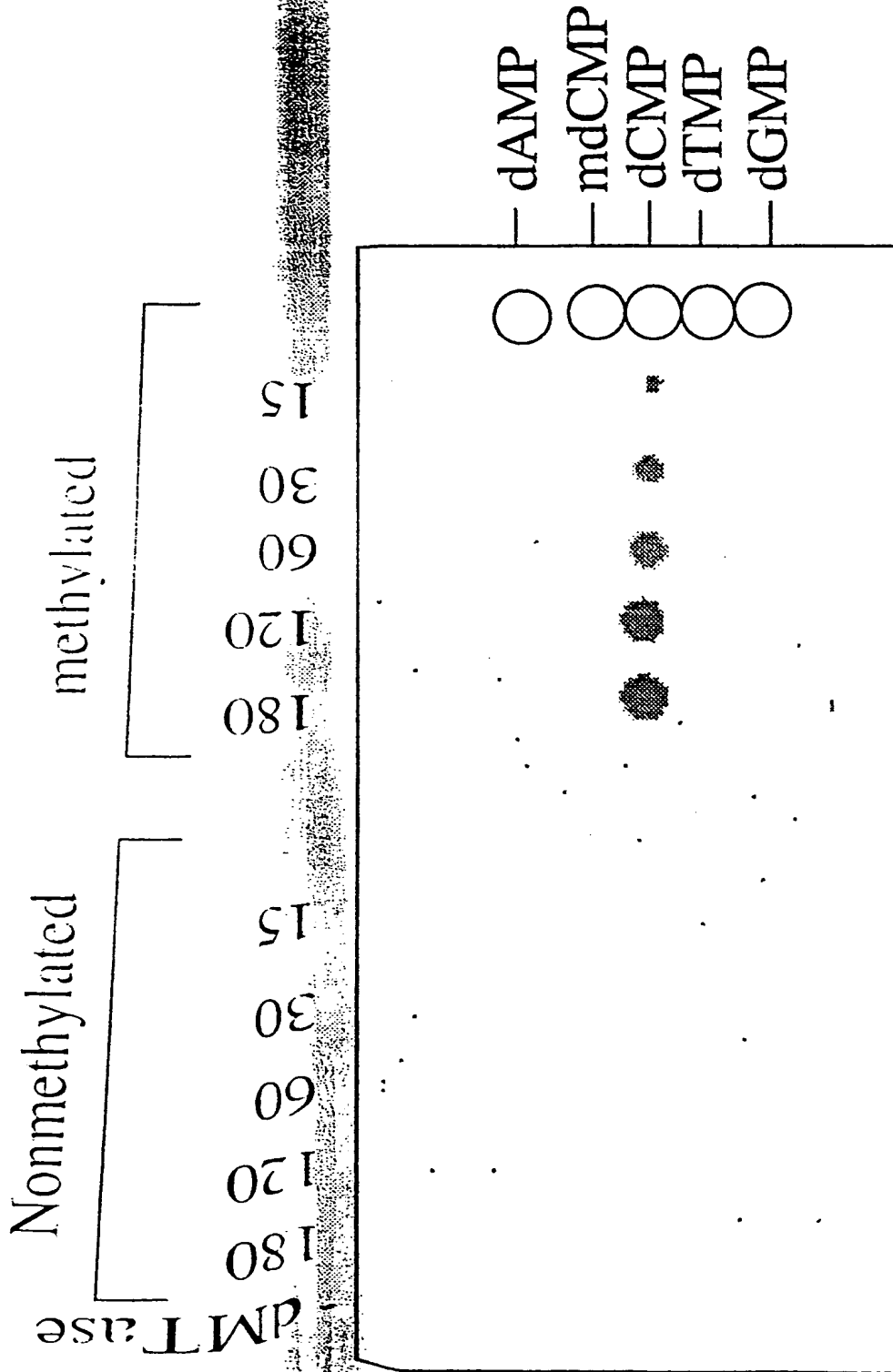


Fig. 4D

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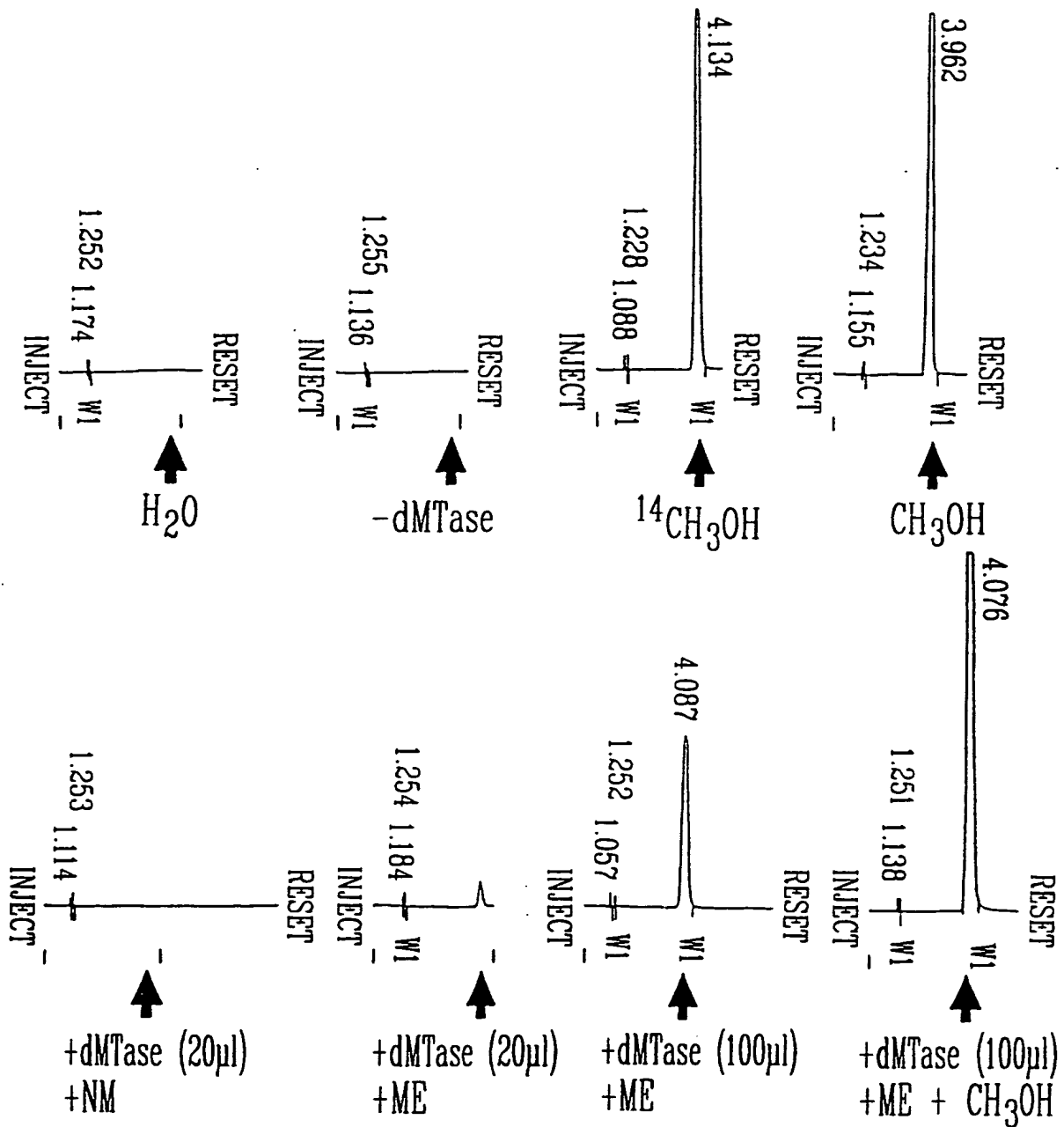
[illegible]

FIG. 4E

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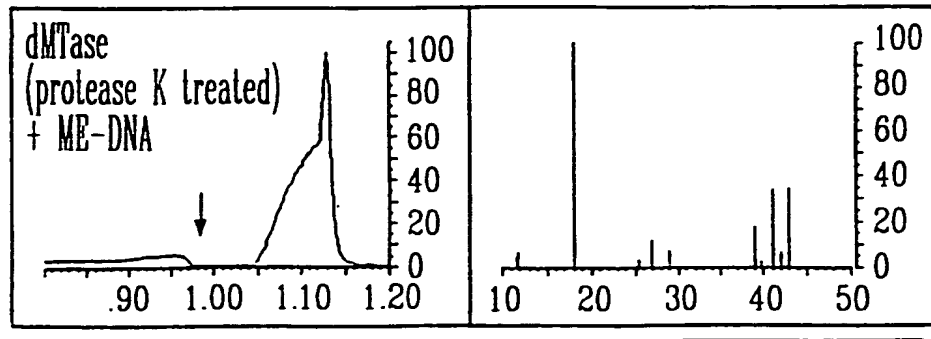
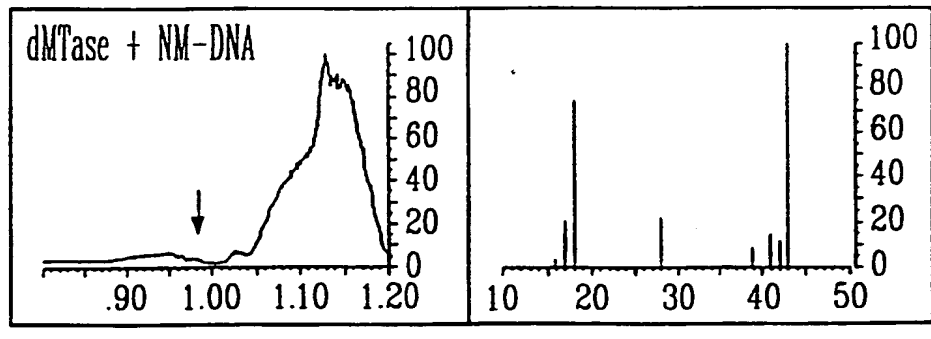
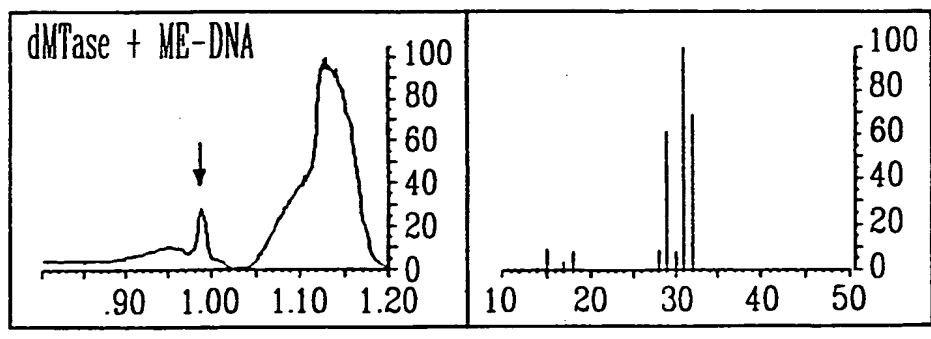
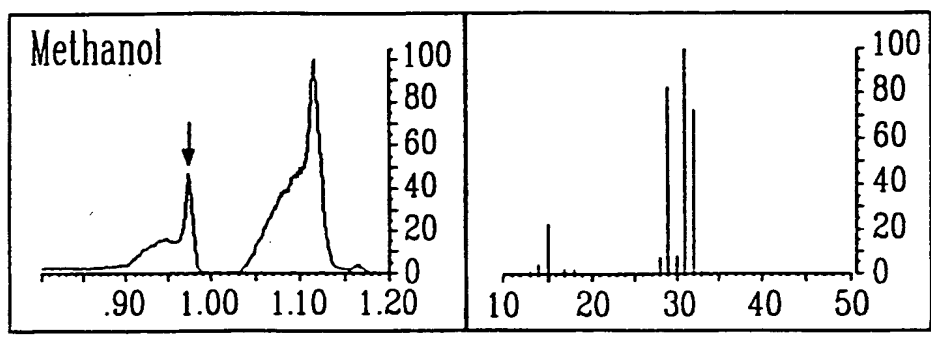
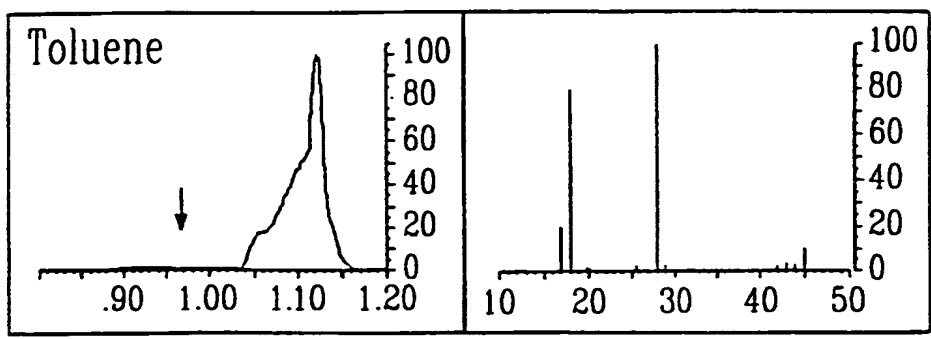


Fig. 4F

009060-1175560

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005000-111550

M.MspI+M.SssI - + +

dMTase - - +

EcoRII	+	+	+	+
DpnI	+	+	+	+
HpaII	+	+	+	+
HhaI	+	+	+	+
MspI	+	+	+	+

— nondigested
— plasmid

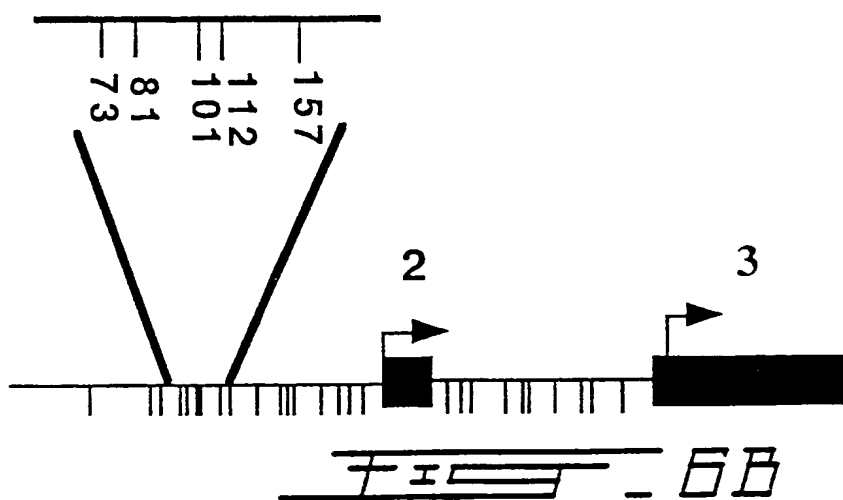
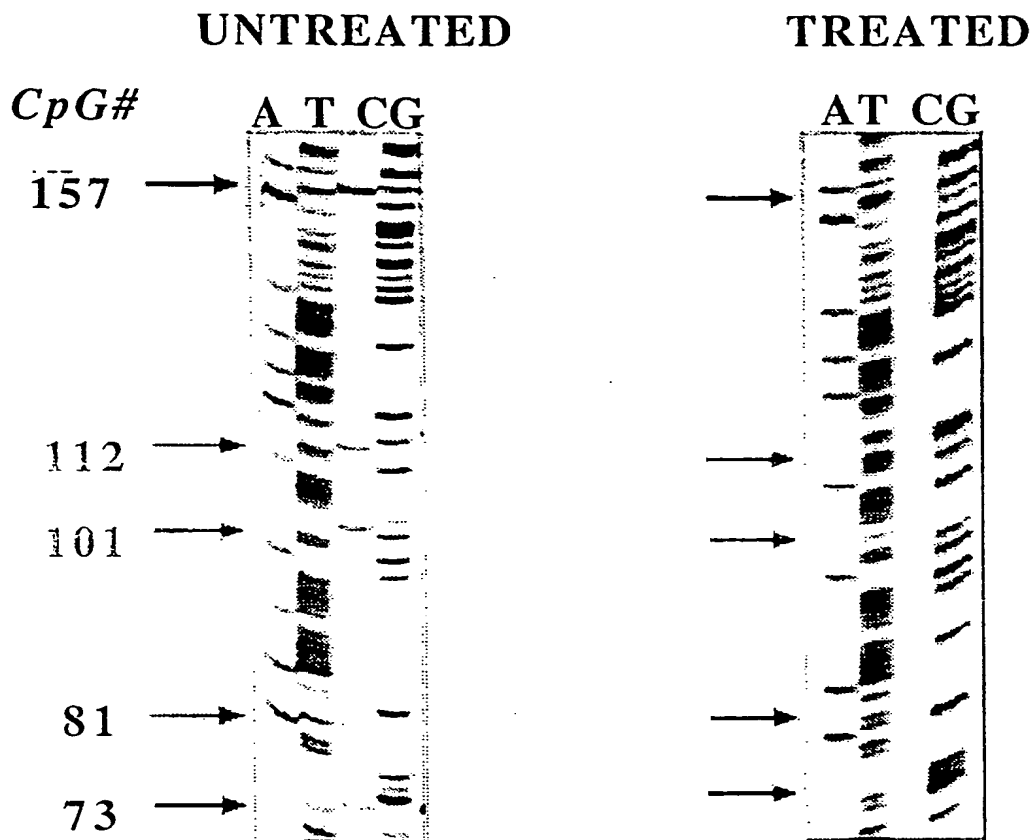
— 1.00

— 0.71 < 0.49
= 0.32 0.40
— 0.24
— 0.15

0.45 0.57 —
0.40 > —
0.39 0.27 —
0.34 0.10 —
0.33

— — — — — BA

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14/50

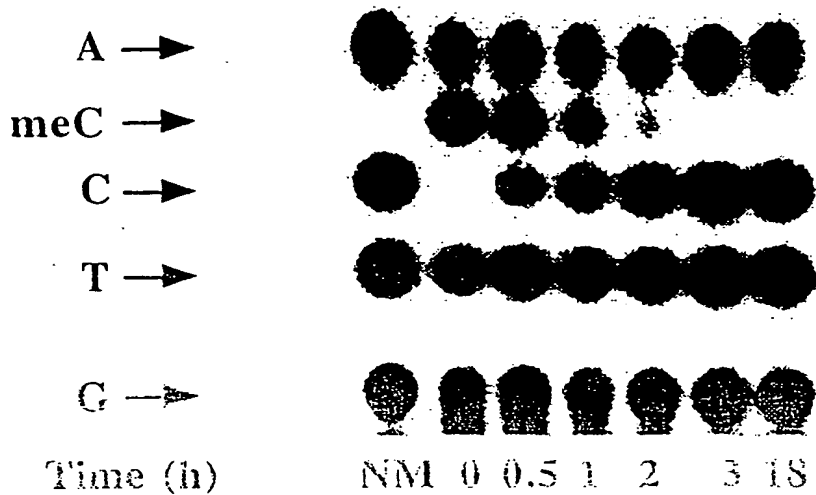


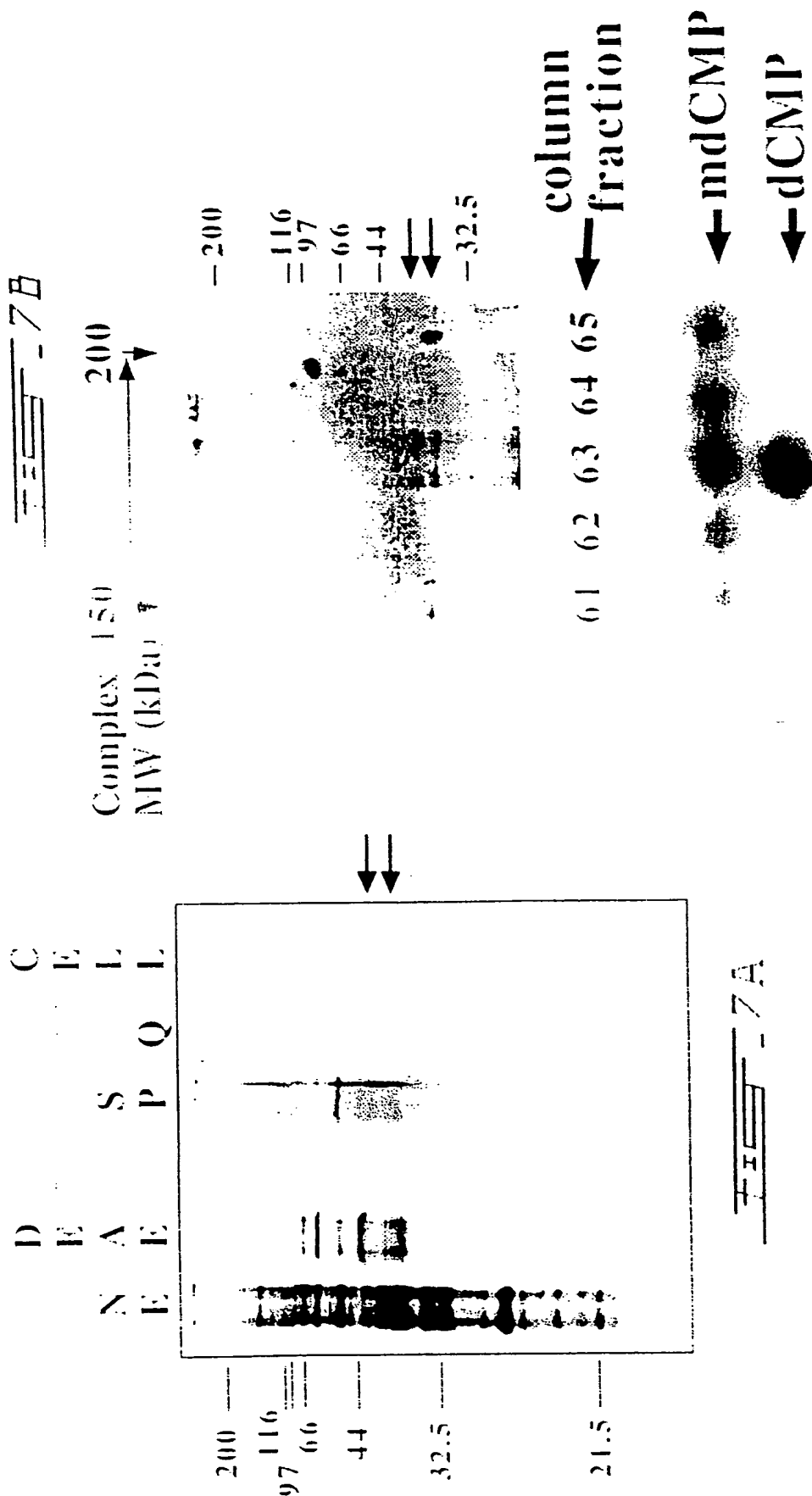
FIG. 1

HM Control
-RNase
+RNase
Control CpT Control CpA CpG ME NM



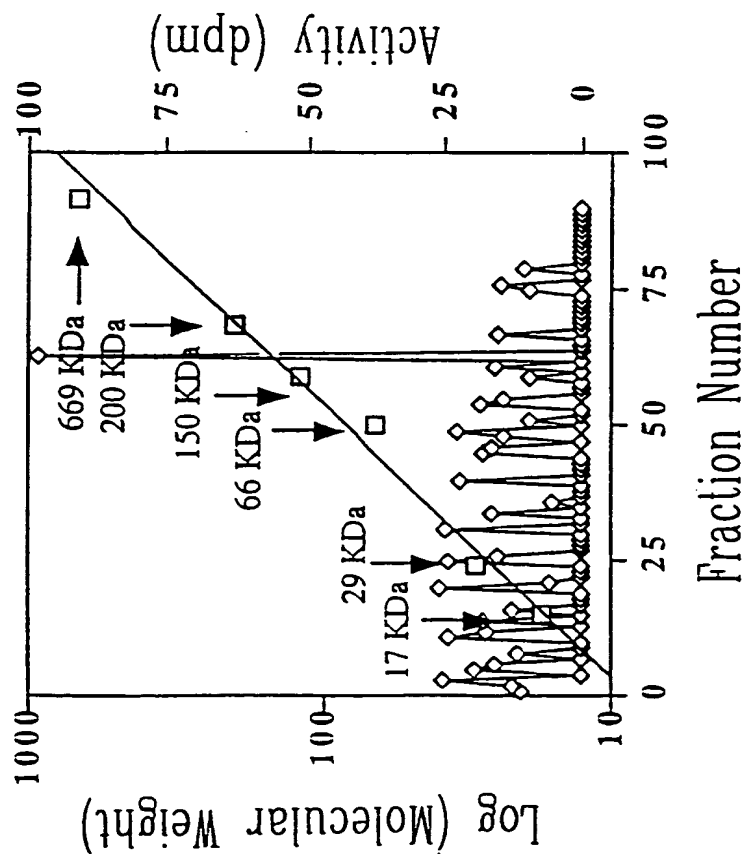
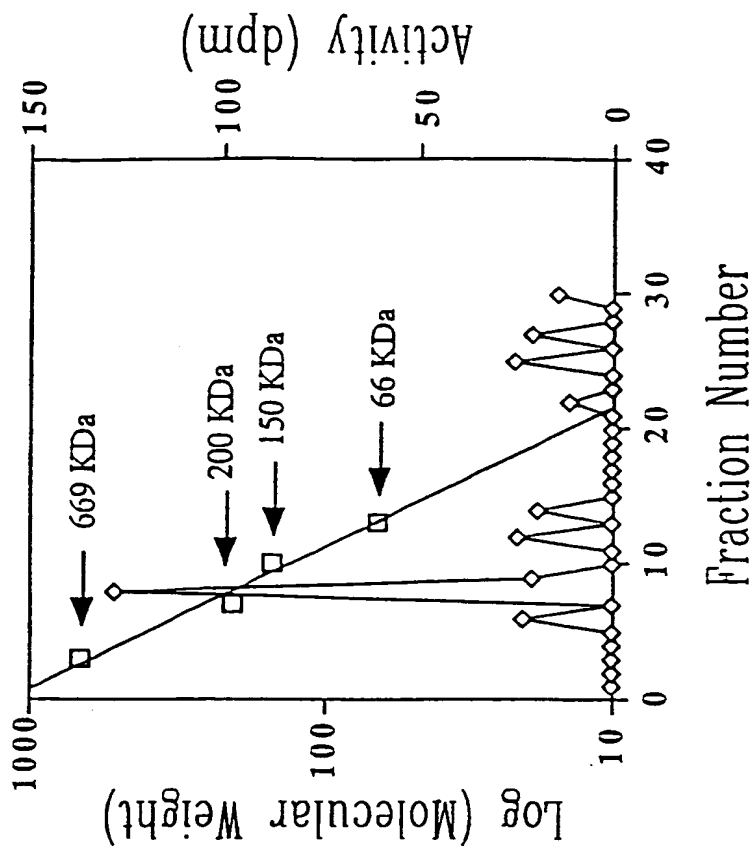
FIG. 2

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009000-47-5550



7D

7C

17/50

EST DCPALPPGAKKEEVIRKSGLSAGKSDVYFSPGKKFRSKPQLARYLGNIVDLS
 |||||
 D P LP GW ++ RKSG SAGK DVY +P GK FRSK +L Y D S
 |||||
 MeCP2 15 DDPILPEGWIRKLGKQKSGRSAGKYDVYLINEPQKAFRSKVELJAYFEKVGDTIS 68

FEF - BA

MDCPALPPGW KKEEVIRKSG LSAGKSDVY FSPGKKFRS 40
 ~~~~~  
 KPQLARYLGN TVDLSSFDGR TGKMMPSKLQ KNKQRLRNDP 80  
 ~~~~~  
 LNQNKGKPD LNTLPIRQTA SIFKQPVTKV TNHPSNKKVS 120
 ~~~~~  
 DPQRMNEQPR QLFWEKRLQG LSASDVTEQI IKTMLPKGL 160  
 ~~~~~  
 QGVGPGSNDE TLSSAVASAL HTSSAPITGQ VSAAVEKNPA 200
 ~~~~~  
 VWLNTSQPLC KAFIVTDEDI RKQEERVQOV RKILEDALMA 240  
 ~~~~~  
 DILSRAADTE EMDIEMDSGD EA 262

homology to methylated DNA
 binding domain
 homology to coiled
 coil domain

FEF - BB

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009060-11-11560

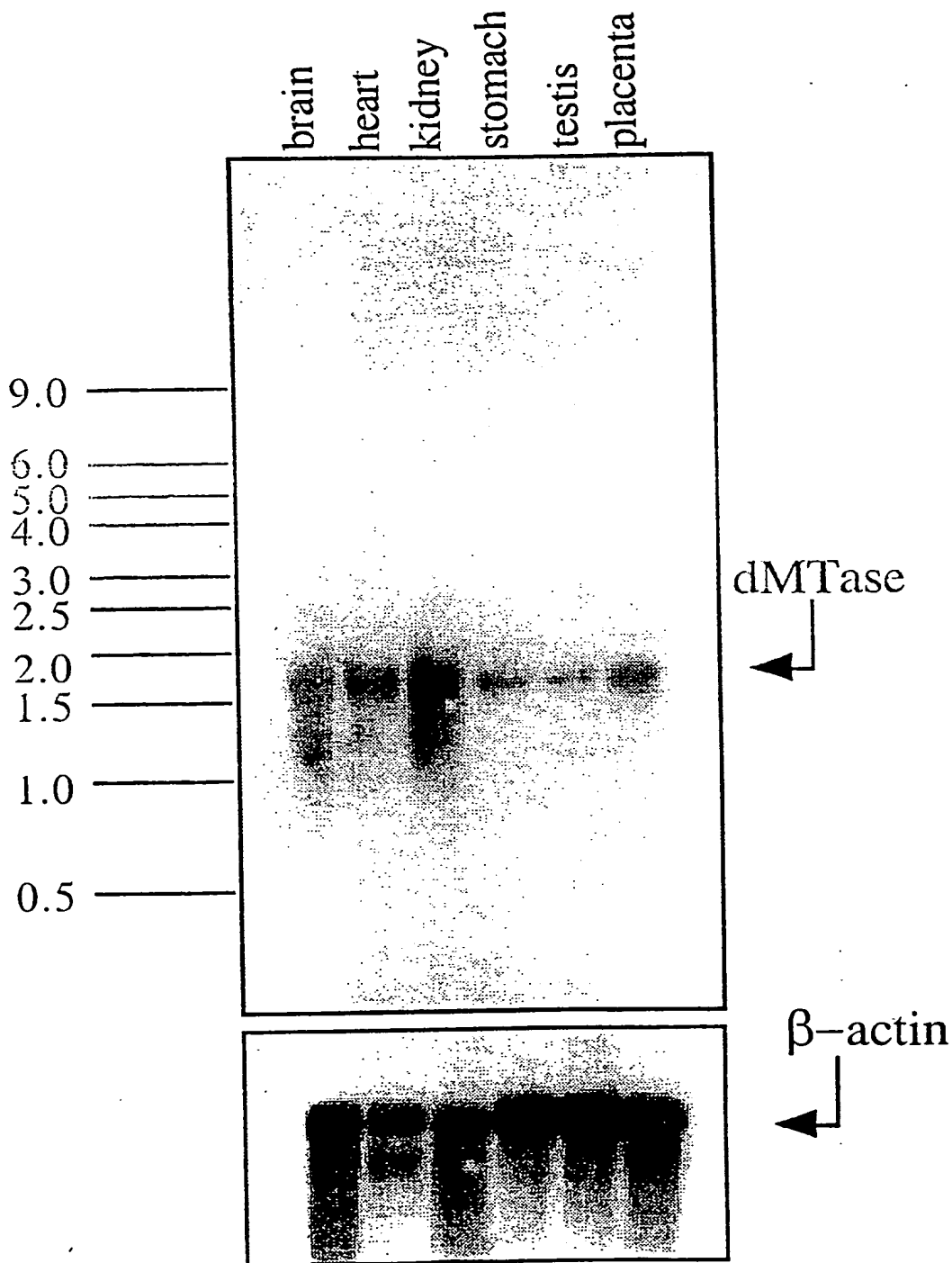


Fig. 18C

Human DNA demethylase cDNA-dMTase1 and predicted amino acid sequence

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 agaggcggtg gccggggcca gccccgggc aggaggggc ctctgtgcgc gcccgctcta
 tgatgcttgc gcgcgtccc gcgcgcgc gctgcggcg ggcgggtct cgggattcc
 aagggtcgg ttacggaaga agcgcagcg cggctggga ggggctgga tgcgcgcga
 cccggggga gccgctgct gccggagca ggaggaggg gagagtgcg cggcggcag
 cggcgctggc ggcactccg ccatagaca gggggggcag ggcagcgc tcgccccgc
 cccggtgag gccgtgcga ggaaggcgc tcggggcggc gccgtggc gggggcggtg
 gaagcaggcg gccggggcg gcggcgtctg tggcgtggc cggggccgg gccgtggcg
 gggacggga cggggccgg gccggggcg cggcgtccc cagatggcg gcagcggcct
 tggcggcgac gccggcggct gccggcggc cggcagcgg gccggcggc ccccccggc
 ggagccggtc ccttcccgt cggggagcg gggccggg gccaggggac cccggggcac
 ggagagcgg aagaggatgg attgcccg gcctcccc ggatggaaga aggaggaagt
 gatccgaaa tctgggctaa gtgctggcaa gagcgatgt tactactca gtccaagtgg
 taagaagtgc agaagcaagc ctcagttggc aaggtacctg ggaaatactg ttgatctcag
 cagttttgac ttcagaactg gaaagatgat gcctagttaa ttacagaaga acaacagag
 actgcgaaac gatcctctca atcaaaataa gggtaacca gacttgaata caacattgcc
 aattagacaa acagcatcaa tttcaaca accggtaacc aaagtcacaa atcatcctag

19/50

TH550-9A

G03050"TTTSS00

20/50

taataaagtg aaatcagacc cacaacgaat gaatgaacag ccacgtcagc ttttctggga
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actacccaaa ggtcttcaag gagttggtcc aggtagcaat gatgagaccc ttttatctgc
tgttgccagt gctttgcaca caagctctgc gccaatcaca gggcaagtct ccgctgctgt
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agaacagatc aggaattcta aataaaattc ccagttaaag attattgtga cttcactgta
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SEQ ID NO:1

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21/50

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 GSGLGDDGGCGGGGAPRRFPVFPSSAGPGRGPRAATESGKRM
 DCPALPPGWKKFEEVIRKSLSAGKSDVYFSPSGKKFRSKPQLARYLGNT
 VDLSSFDFRGTGKMMP SKLQKNKQRLRNDPLNQNKGPDLN'TTLP'IRQTAS
 IFKQPVTKVTNHPSNKKVKS DPQRMNEQPRQLFWEKRLQGLSASDVTEQII
 KTMELPKGLQGVGPGSNDETLLSAVASALHTSSAPI TGQVSAAVEKNPAV
 WLNTSQPLCKAFIVTDEDIRKQEERVQQVRKKLEEALMADILSRAADTEE
 MDIEMDSGDEA)

SEQ ID NO:2

FEF-9C

Human DNA demethylase homologue-dMTase2 and predicted amino acid sequence

5' agcgggccga ggagccgggc gcaatggagc ggaagagggtg ggagtgcccg gcgctcccgc
agggctggga gaggaagaa gtgccagaa ggtcggggct gtcggccggc cacaggggatg
tctttacta tagccgagc gggaagaagt tccgcagcaa gccgcagctg gcgcgctacc
tgggcggctc catggacctg agcaccttcg actccgcac gggcaagatg ctgatgagca
agatgaacaa gagccgccag cgcgtgcgt acgactcctc caaccagggtc aagggaagc
ccgacctgaa cacggcgctg ccgtgcgc agacggcgtc catcttcaag cagccgggtga
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FIG. 1

23/50

cctccccatg cccgctgtcc cagctccttg agactggaga gcagccagca ggtgcccggc
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 gaaactcaca tcaccactg tgcagcgtga ggacgggact ctggtctgct gtgggggggca
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 tgatgggcaa gagtcccccc tgtggctgga ctgtgacct cctgatggg gcctgaccgc
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SEQ ID NO:3

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009060" 47445560

WO 99/24583

09/554414
PCT/CA98/01059

24/50

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VRQTASIFKQPVTKITNHPSNKKVKSDDPQKAVDQPRQLFWEKKLSGLNAFD
IAEELVKTMDLPKGLQGVGPGCTDETLLSAIASALHTSTMPIITGQLSAAV
EKNPGVWLNNTTQPLCKAFMVTDEDIRKQEELVQQVRKRLEEALMADMLAH
VEELARDGEAPLDKACAEDDDEEEEEPPDPPEMEHV

SEQ ID NO: 4

Fig. 1

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Seq1(1>411) human dMTase1 protein (148>397)	Seq2(1>291) human dMTase2 protein (4>253)	Similarity Index	Gap Number	Gap Length	Consensus Length
		76.0	0	0	250
		76.0	0	0	250

v150	v160	v170	v180	v190	v200	v210
KRMDCPALPPGWKKEEVI	RKSGLSAGKSDVY	YFSPSGKKFRSKPQLARYLGNIV	DLSSFD	FRTIGKMMPSK		
KR	:CPALP.GW.:EEV R:SGLSAG..DV:Y:SPSGKKFRSKPQLARYLG.:DLS:FD	FRTIGKM:SK				
KRWECPALPQGWEREFEV	PRRSGLSAGHRDVFY	YSPSGKKFRSKPQLARYLGG	MDLSTFD	FRTIGKMLMSK		

v220	v230	v240	v250	v260	v270	v280
LQKNKQRLRNDPLNQNKGKPDNLNTTLPTRQTASTFKQFPVTKVTNHPSNKKVKSDFQRMNEQPRQLFWIEKRL						
:K:QR:R D: NQ KGKPDNLNT:LP:RQTASTFKQFPVTK:TNHPSNKKVKSDFQ: :QPRQLFWIEK:L						
MNKSQRQVRVYDSSNQVKGKPDNLNTALPVRQTASTFKQFPVTKITNHPSNKKVKSDFQKAVDQPRQLFWIEKKL						
^80	^90	^100	^110	^120	^130	^140

76-1337

v290 v300 v310 v320 v330 v340 v350
 QGLSASDVTEQIIKIMELPKGLQGVGPGSNDITLLSAVASALHTSSAPITGQVSAAVEKNPAVWLNTSQP
 GL:A D::E::KIM:L PKGLQGVGPG..DEITLLSA:ASALHTS: PITGQ:SAAVEKNP:VWLNT:QP
 SGLNAFDIAEELVKITMDL PKGLQGVGPGCTDEITLLSAIASALHTSTIMPITGQLSAAVEKNPGVWLNTTQP
 ^150 ^160 ^170 ^180 ^190 ^200 ^210
 26/50
 v360 v370 v380 v390
 LCKAFIVTDEDIRKQEEERVQQVRKKLEEFALMADILSRAAD
 LCKAF:VITDEDIRKQEE VQQVRK:LEEFALMAD:L:::
 LCKAFMVTDEDIRKQEEELVQQVRKRLLEEFALMADMLAHVEE
 ^220 ^230 ^240 ^250

FEF - 9H

Mouse DNA demethylase-dMTase1 and predicted amino acid sequence

5' ccgctctgcg ggcggggcgg gtctccggga ttccaaggcg tcggttacgg aagaagcgca
gagccggctg gggagggggc tggatgcgcg cgcaccgggg gggaggccgc tgtgcccgg
agcaggagga ggggagagc ggcggggcg gcagcggcg tggcggcgac tccgccatag
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ccggcaagat caagggtaaa ccagaccta ccaaaattca cgaaccacc agcaataag gtgaagtca
tcaatcagaa caaccagta accaaattca cgaaccacc agcttttctg ggagaagagg ctacaaggac
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ttagcgcac agatgtaaca gaacaaatta ccttctgtc cccttctgtc tgctgtggc agtgccttac
aaggagtcgg tccaggtagc aatgacgaga

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FIG. 1

28/50

acacaagctc tgcgcccatc acaggacaag tctctgctgc cgtggaaaag aaccctgctg
 ttgggcttaa cacatctcaa cccctctgca aagctttcat tgttacagat gaagacatta
 ggaacagga agagcgagtc caacaagtac gcaagaaact ggaggaggca ctgatggccg
 acatcctgtc ccgggctgcg gacacggagg aagtagacat tgacatggac agtggagatg
 aggcgtaaga atatgatcag gtaactttcg actgaccttc cccaagagca aattgctaga
 aacagaatta aaacatttcc actgggttcc gcctgtaaga aaaagtgtac ctgagcacat
 agctttttaa tagcactaac caatgccttt ttagatgtat ttttgatgta tatactctatt
 attccaaatg atgtttattt tgaatccctag gacttaaaat gagtctttta taatagcaag
 cagggccctt ccggtgcagt gcagctttga ggccaggctgc agtctactgg aaaggtagca
 cttacgtgaa atatttgttt cccccacagt tttaatataa acagatcagg agtaccacaaat
 aagtttccca attaaagatt attatacttc actgtatata aacagatttt tatactttat
 tgaaagaaga tacctgtaca ttcttccatc atcactgtaa agacaaataa atgactatat
 tcac 3'

SEQ ID NO: 5

FIG. 5

29/50

MRAHPGGRCCEEEGESAAGSGAGGDSAIEQGGQGSALAPSPVSGVR
REGARGGGRGRWKQAARGGVCGRGRGRGRGRGRGRGRGRGRGPQSG
GSGLGDDGGGAGGCGVSGGVAARRDPVPFPSSGSGPGRPRATESG
KRMDCPALPPGWKKEEVIRKSGLSAGKSDVYYFSPSGKKFRSKPQLARYL
GNAVDLSSFDFRTGKMMPSKLQKNKQRLRNDPLNQNKGKPDNLNTLPIRQ
TASIFKQPVTKFTNHPSNKVKSDPQRMNEQPRQLFWEKRLQGLSASDVTE
QIIKTMELPKGLQGVGPGSNDETLLSAVASALHTSSAPITGQVSAAVEKN
PAVWLNTSQPLCKAFIVTDEDIRKQEEERVQQVRKKLEALMADILLSRAAD
TEEVVDIDMDSGDEA

SEQ ID NO: 6

FEI - 9K

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Mouse DNA demethylase-dMTase2 and predicted amino acid sequence

5' cacgcgcggg cgggtgggcg gagcgcccc ctagcgggg gctgtgaagc gcggggagggg
 ggccgagcgg gtggcgaagc cggcgcgcg cggctgggg gcggaggcg gaggcccgctg
 ggacagaaca gctgcggcga gtggcgcgcg cggagggagc cgaatcggcg acgagcccgg
 gggtcgcaac ttgcagaagc ggcggcggcg gcggcatcgg ccacggcggg cggaaaagcc
 ggggcgcaat ggagcgaag aggtgggagt gccggcgct cccgcaggcg tgggaaaggg
 aagaagtgc caggaggtcg gggctgtcgg ccggccacag ggatgtctt tactatagcc
 ccagcgggaa gaagtccgc agcaagccac aactggcacg ttacctgggc ggatcccatgg
 acctcagcac cttcgacttc cgcaccggaa agatgttgat gaacaagatg aataagagtc
 gccagcgtgt gcgctatgat tctccaacc aggtcaaggg caagcctgac ctgaacaccg
 cgctgcctgt acggcagact gcattccatct tcaagcaacc ggtgaccaag atcaccaacc
 acccagcaa caaggtcaag agcgaccgc agaaggcagt ggaccagcg aggcagctt
 tctgggagaa gaagctaagt ggattgagt cctttgacat tgcagaagaa ctggtcagga
 ccatggactt gcccaaggcg ctgcaggag tgggccctgg ctgtacagat gagacgctgc
 tgtcagccat tgcgagtgt ctacacacca gcaccctgcc cattacaggc cagctctctg
 cagccgtgga gaagaacctt ggtgtgtggc tgaacactgc acagccactg tgcaaaagcct
 tcatggtgac agatgacgac atcaggaagc agaggagctt ggtacagcag gtacggaagc
 gcctggagga ggcactgatg gccgacatgc tagctcatgt ggaggagctt gcccgagacg
 gggaggcacc actggacaag gcctgtgcag aggaggaa gaaggaggagg

715 - 97

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aagagccgga gccagagcga gtgtagcaca ggtgccctgc ccaagtctgg gctgcagact
gccttcagcc ttgcctggac caggtagggg ccagacctgt aggaggcagc cgtccacctc
ctttccaaag cctcctgctt ccagggtctca gtgcaggag cccctgtgga ccttgaactc
acttgtccct gcgctgcctg gcaggaagcc ccacactgaa agcagatgag cagtgaccca
actgagaggg cactggaca cagtcacctc cctgcctcct tatcatagga caaggccttg
cttggcaccg aggagctggg agccgtgttg ggtgctggag gaagtcttg gaaacacacc
tggctatgcc caccttatgt ccctaaggct attacaggcc agggtttggg ctgctccggc
ccacagggct gccagcctc ccacactga gggtcagcag ccacaccagga agtcactttc
cttcaataaa ctgatggtag gaactgtg 3'

SEQ ID NO:7

Free - 9M

005060" 4F445500

WO 99/24583

09/554414

PCT/CA98/01059

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RYLGSMDSLSTFDERTGKMLMNMKNKSRQVRDYSSNQVKGPDLNTALP
VRQTASIFKQPVTKITNHPSNKKVSDPQKAVDQPRQLFWEKKLSGLSAFD
IAEELVRTMDLPKGLQGVGPGCTDETLLSAIALHTSTLPTIGQLSAAV
EKNPGVWLNTAQPLCKAFMVTDDD IRKQEELVQQVRKRLEEALMADMLAH
VEELARDGEAPLDKACAEVEEEEEEEEEPEPERV

SEQ ID NO: 8

FILE - 9N

Lipman-Pearson Protein Alignment

Ktuple: 2; Gap Penalty: 4; Gap Length Penalty: 12

Seq1(1>414)

Seq2(1>285)

mouse dMTase2 protein

Similarity

Gap

Length

Consensus

mouse dMTase1 protein
(151>400)

(4>253)

mouse dMTase2 protein

Index

Number

Length

Length

v160

v170

v180

v190

v200

v210

v220

KRMDCPALPPGWNKEEVIRKSGLSAGKSDVYFSPSGKKFRSKPQLARYLGNVAVDLSSFDRTIGKMMPSK

KR :CPALP.GW.:EEV R:SGLSAG..DV:Y:SPSGKKFRSKPQLARYLG.:DLS:FDRTIGKM: :K

KRWECPALPQGWEREVEVPRRSGLSAGHRDVFYYSFSGKKFRSKPQLARYLGGMDLSTFDRTIGKMLMNK

^10

^20

^30

^40

^50

^60

^70

33/50

v230

v240

v250

v260

v270

v280

v290

LQKNKQRLRNDPLNQNKGPDLNITLPIRQTASTFKQPVTKFTNHPSNKKVKSDFQPMNEQPRQLFWEKRL

: :K::QR:R D: NQ KGKPDINT:LP:RQTASTFKQPVTK:TNHPSNKKVKSDFQ: :QPRQLFWEK:L

MNKSQRQVRDSSNQVKGKPDINTALFVRQTASTFKQPVTKITNHPSNKKVKSDFQKAVDQPRQLFWEKKL

^80

^90

^100

^110

^120

^130

^140

7155-90

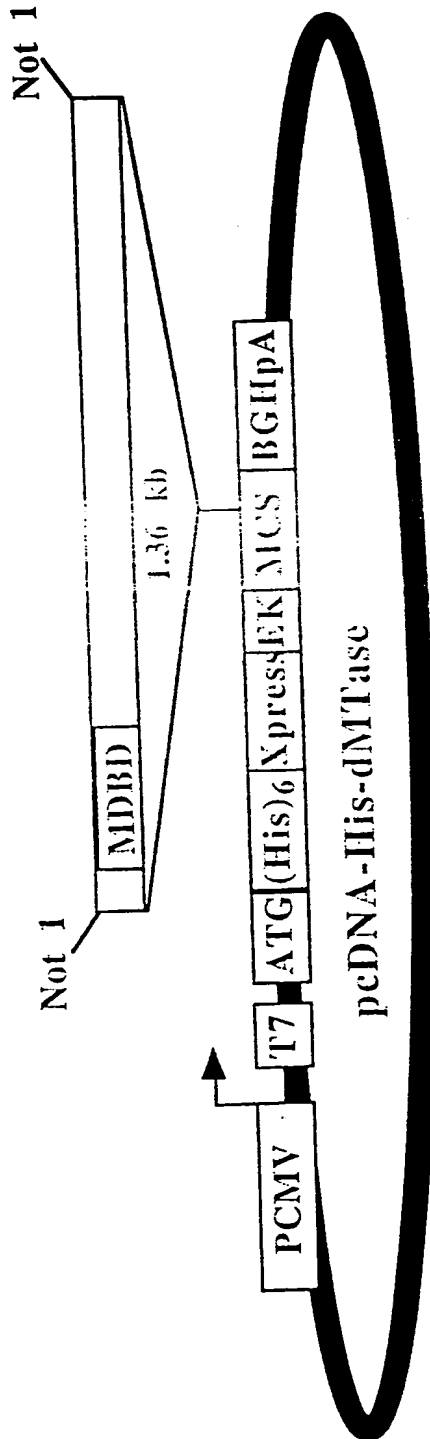
34/50

v300 v310 v320 v330 v340 v350 v360
QGLSASDVTEQIIRKIMELPKGLQGVGPGSNDETILSAVASALHTSSAPITGQVSAAVEKNPAAVWLNTSQP
GLSA D:E:::TM:LPKGLQGVGPG..DETILSA:ASALHTS: PITGQ:SAAVEKNP:VWLNT:QP
SGLSAFDIAEELVRIMDLPKGLQGVGPGCTDETILSAIASALHTSILPITGQLSAAVEKNPVGWLNTAQP
^150 ^160 ^170 ^180 ^190 ^200 ^210

v370 v380 v390 v400
LCKAFIVTDEDIRKQEEERVQQVRKKLEEFALMADILSRAAD
LCKAF:VTD:DIRKQEE VQQVRK:LEEFALMAD:L:::..
LCKAFMVTDDDIRKQEEELVQQVRKKLEEFALMADMLAHVEE
^220 ^230 ^240 ^250

FEF-9P

35/50



dMTase

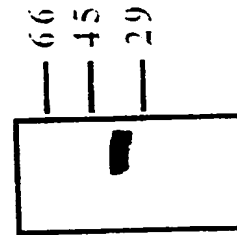
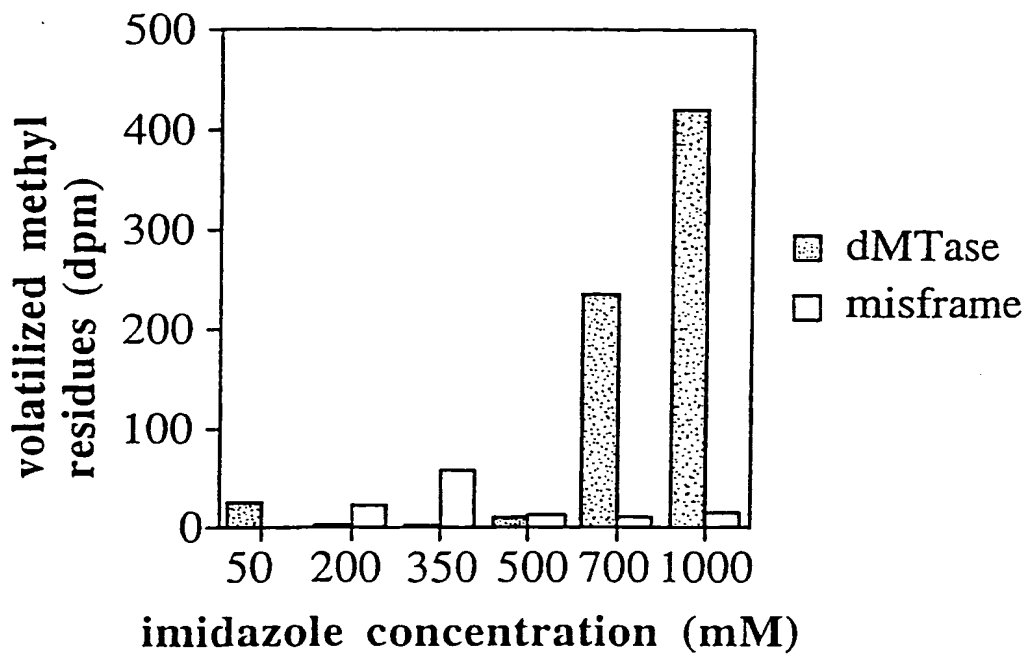


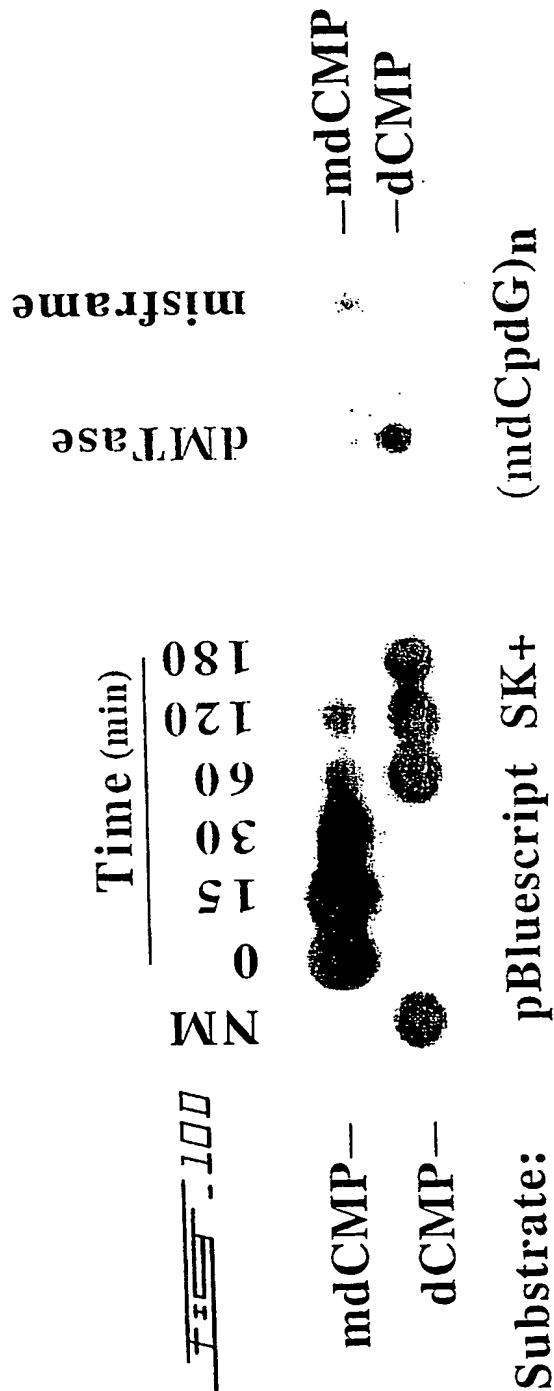
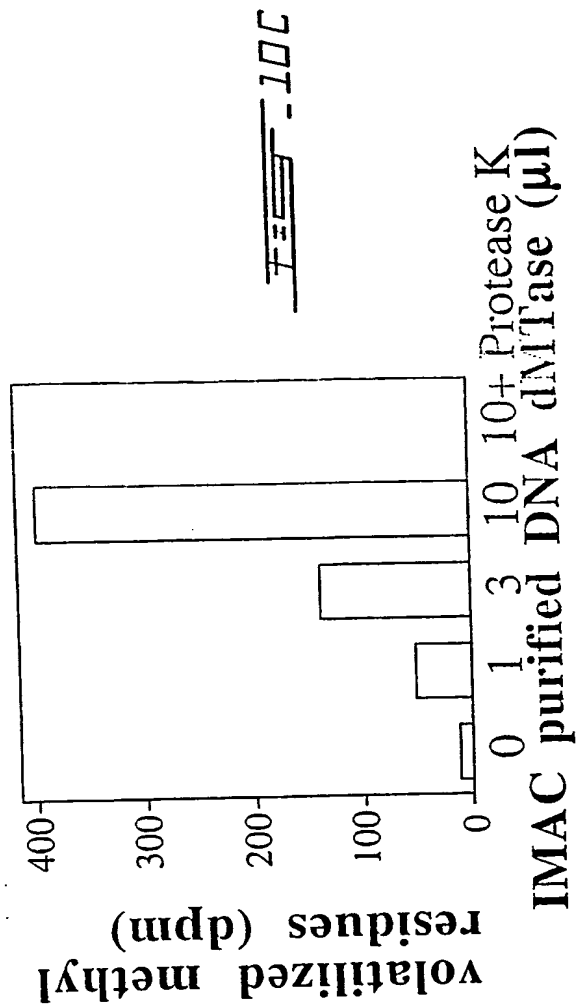
Fig. 10A

36/50

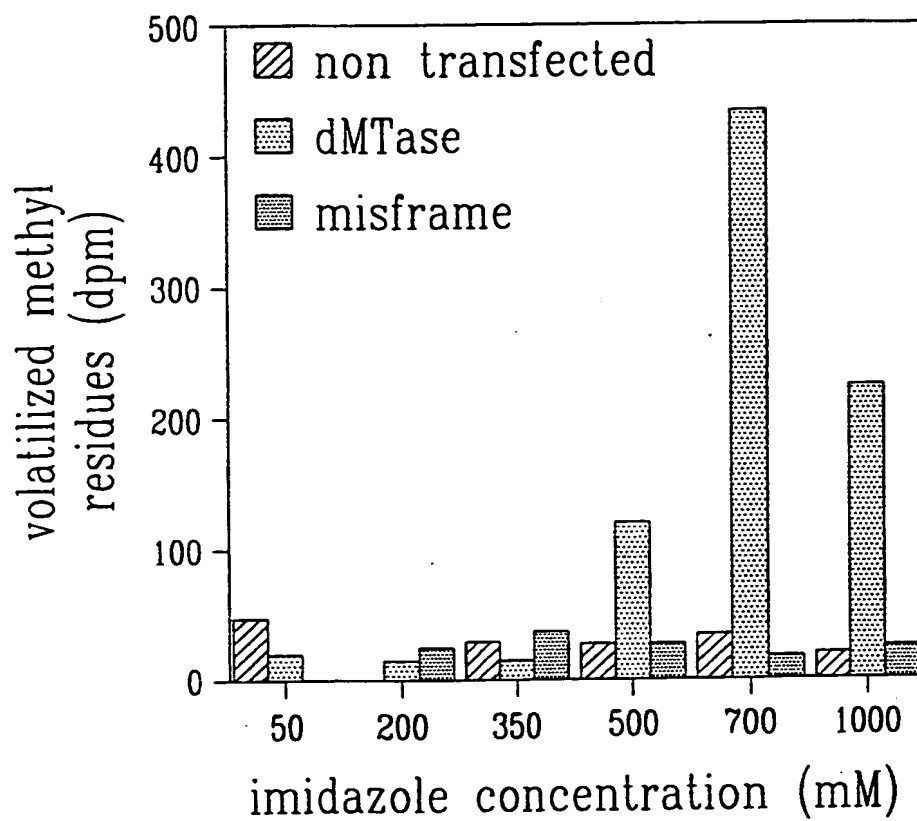
Fig. 10B

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005050" nTthS560

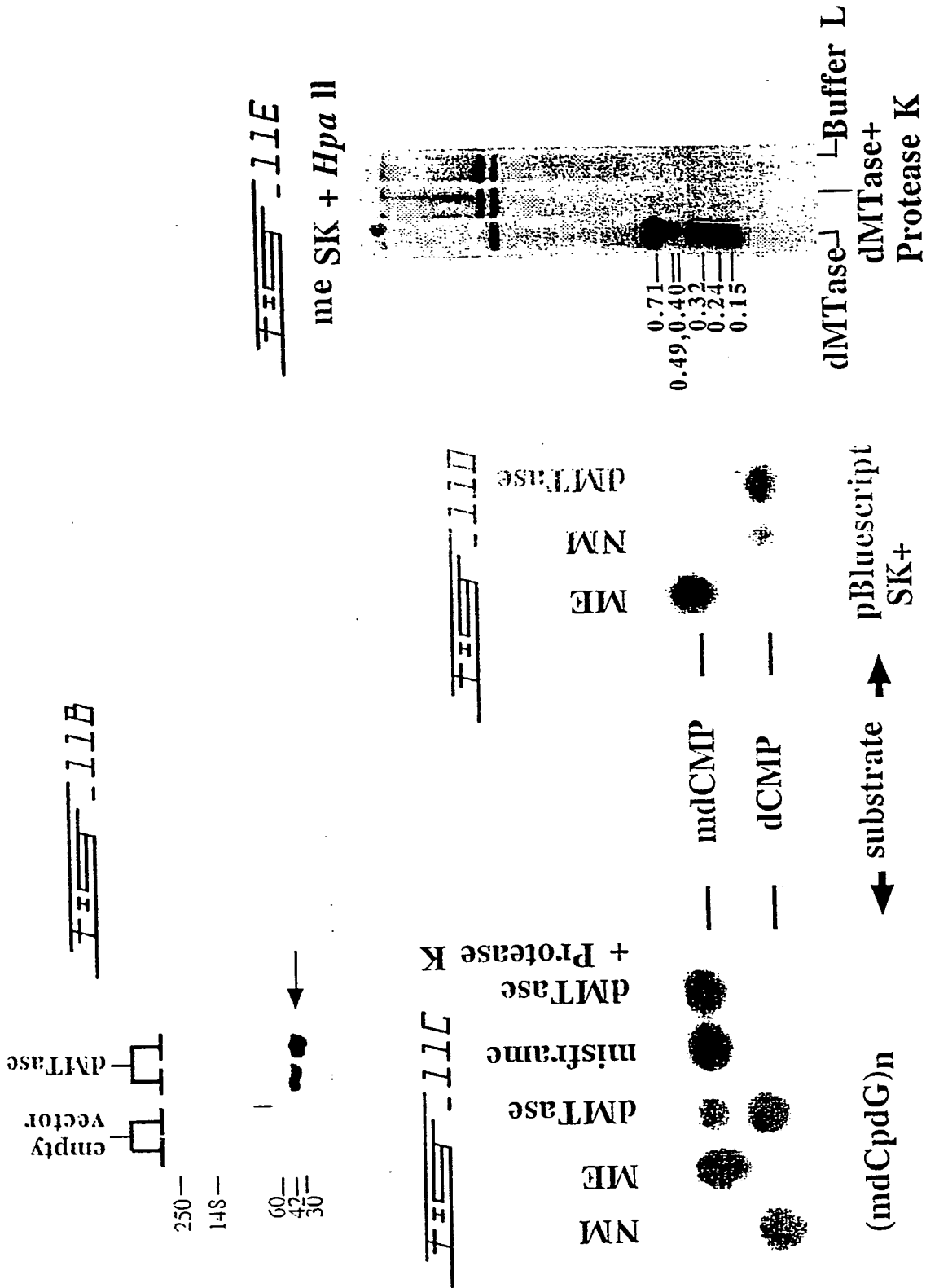


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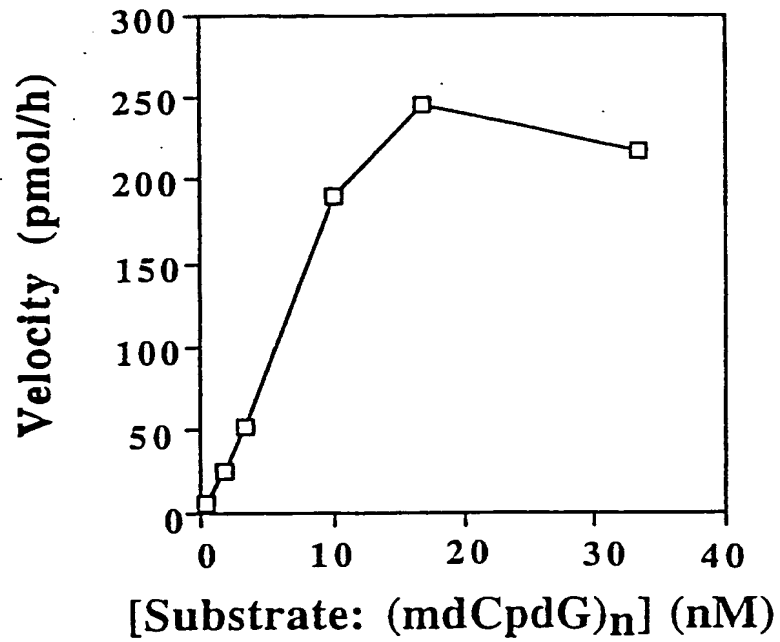
Figure 11A

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003060" 4445560

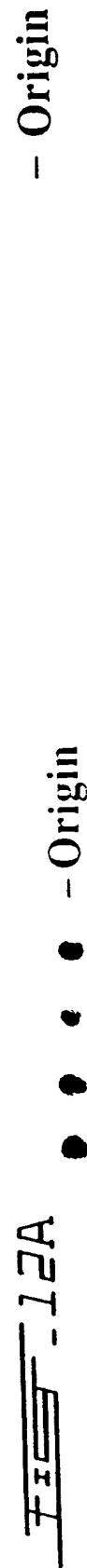
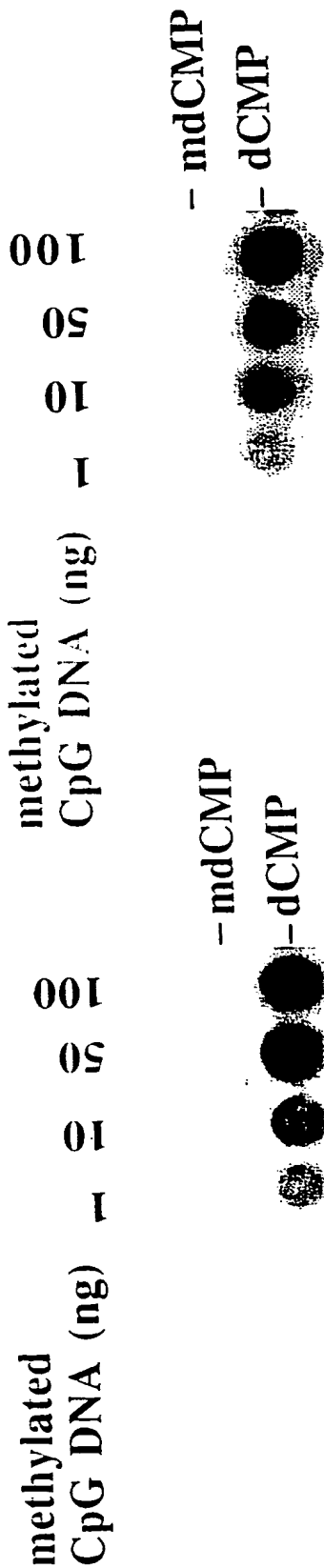


40/50

Fig. 11F

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003060-477550

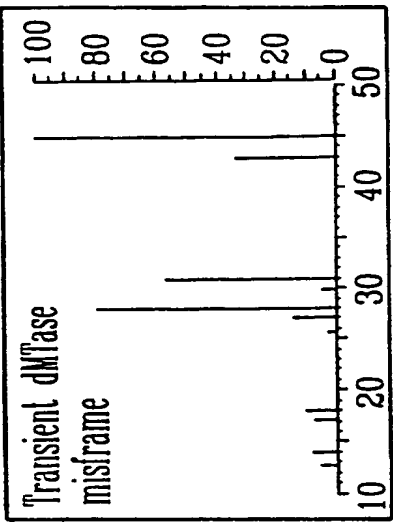
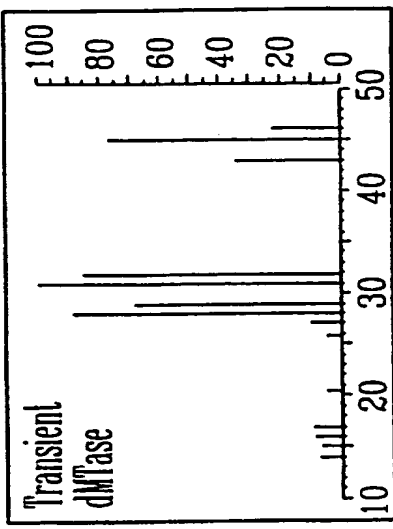
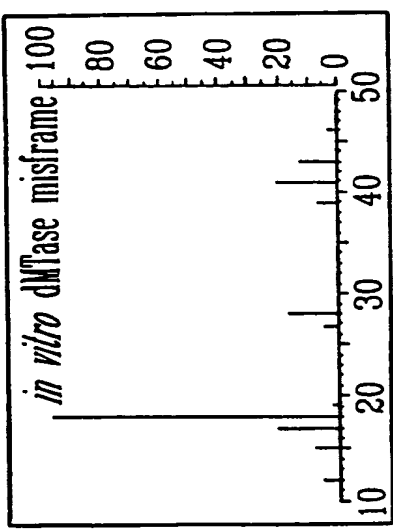
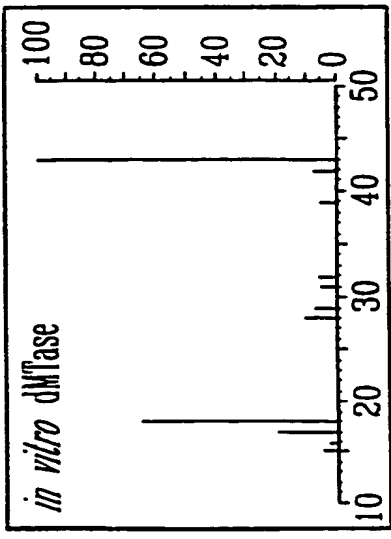
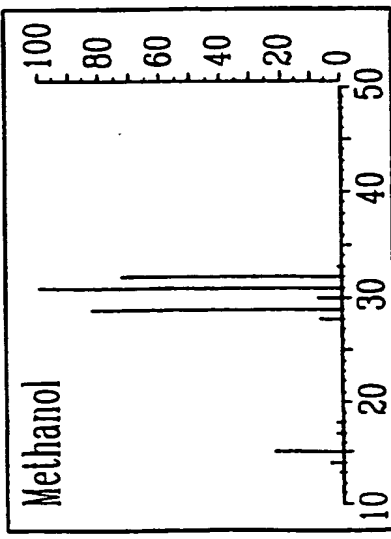
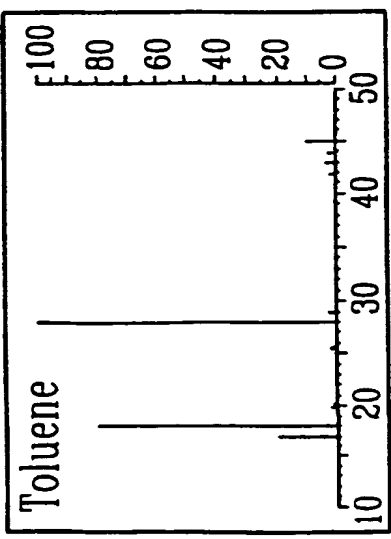


Transient dMTase

A549 dMTase

Free - 12B

003000" TTTTSS00



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009060" 4444560

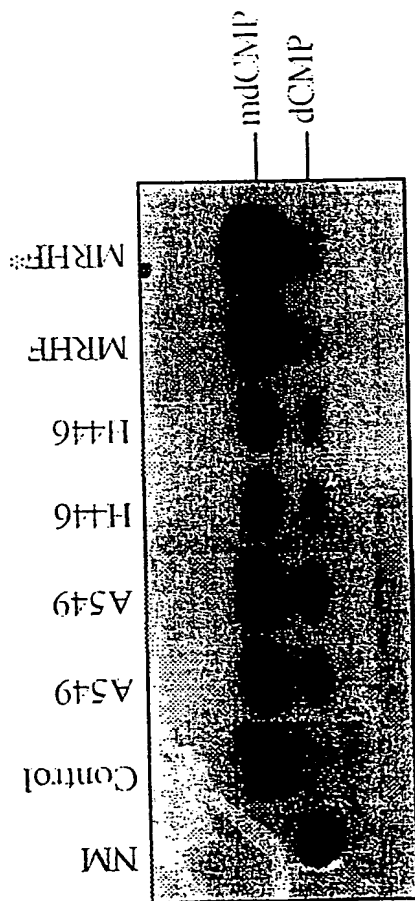
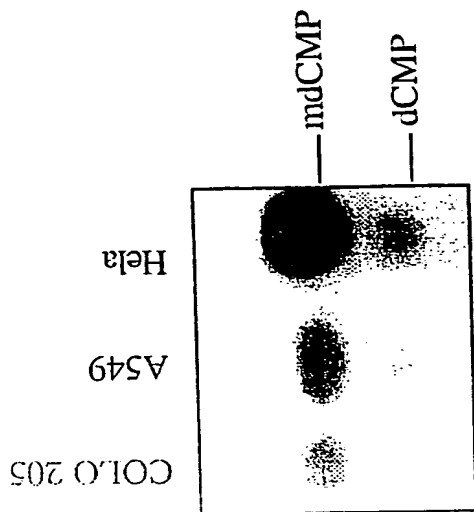


Fig. 13A

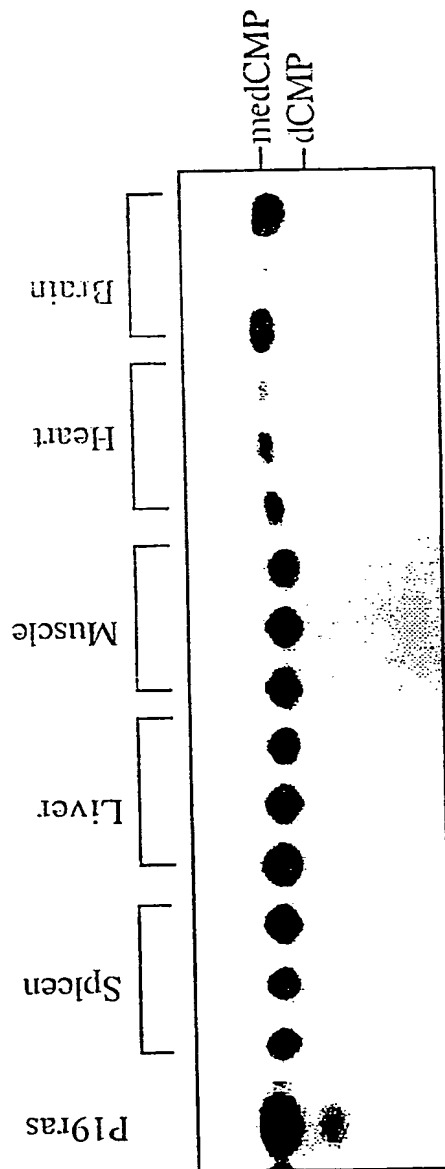


Fig. 13B

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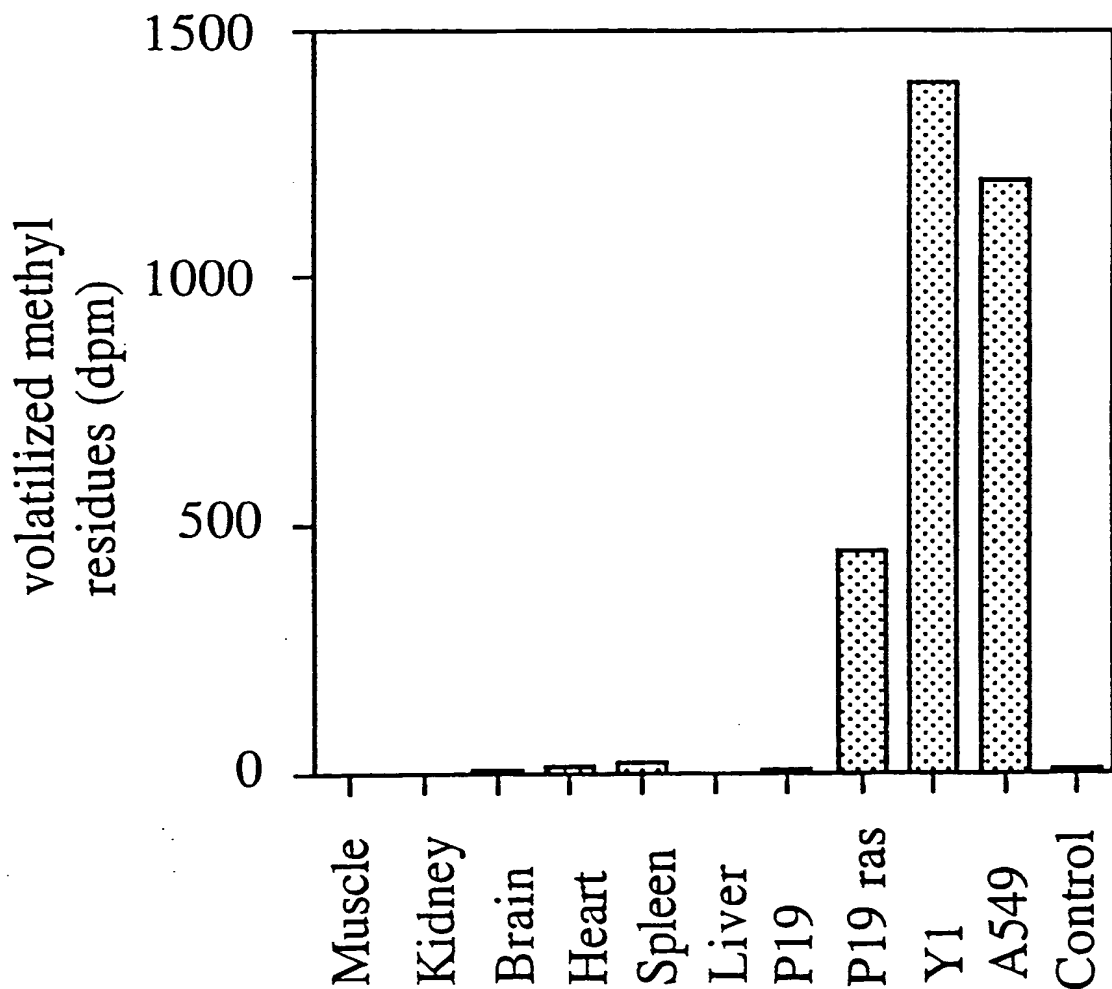
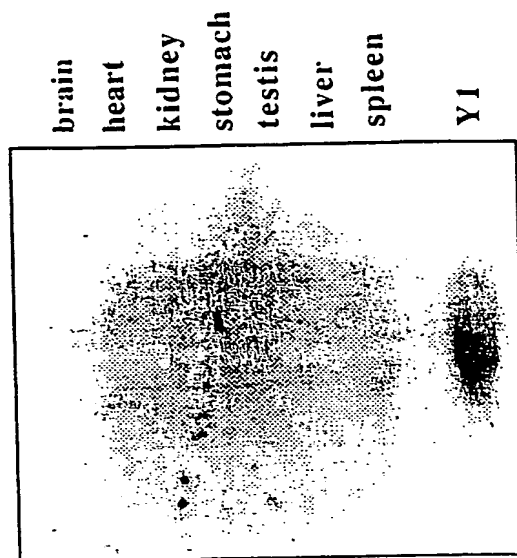


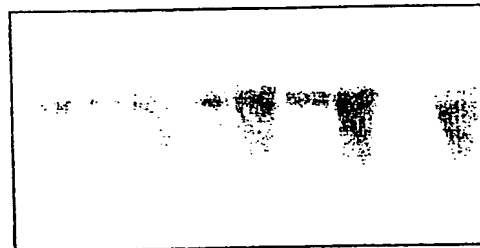
Fig. 13C

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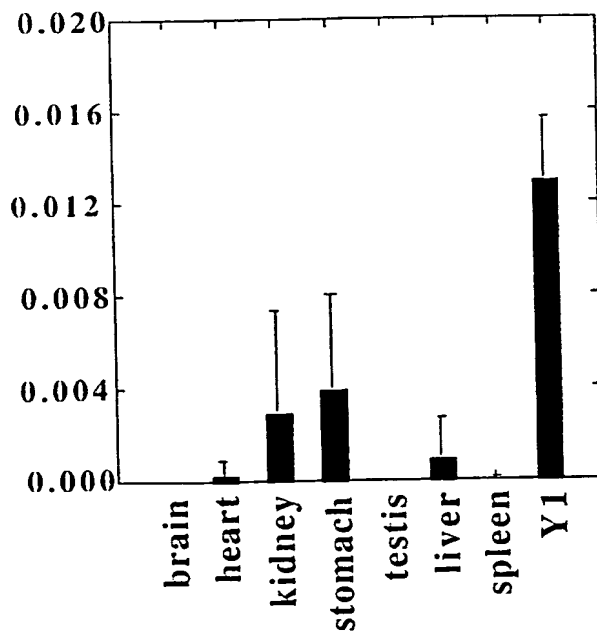
dMTase



18s



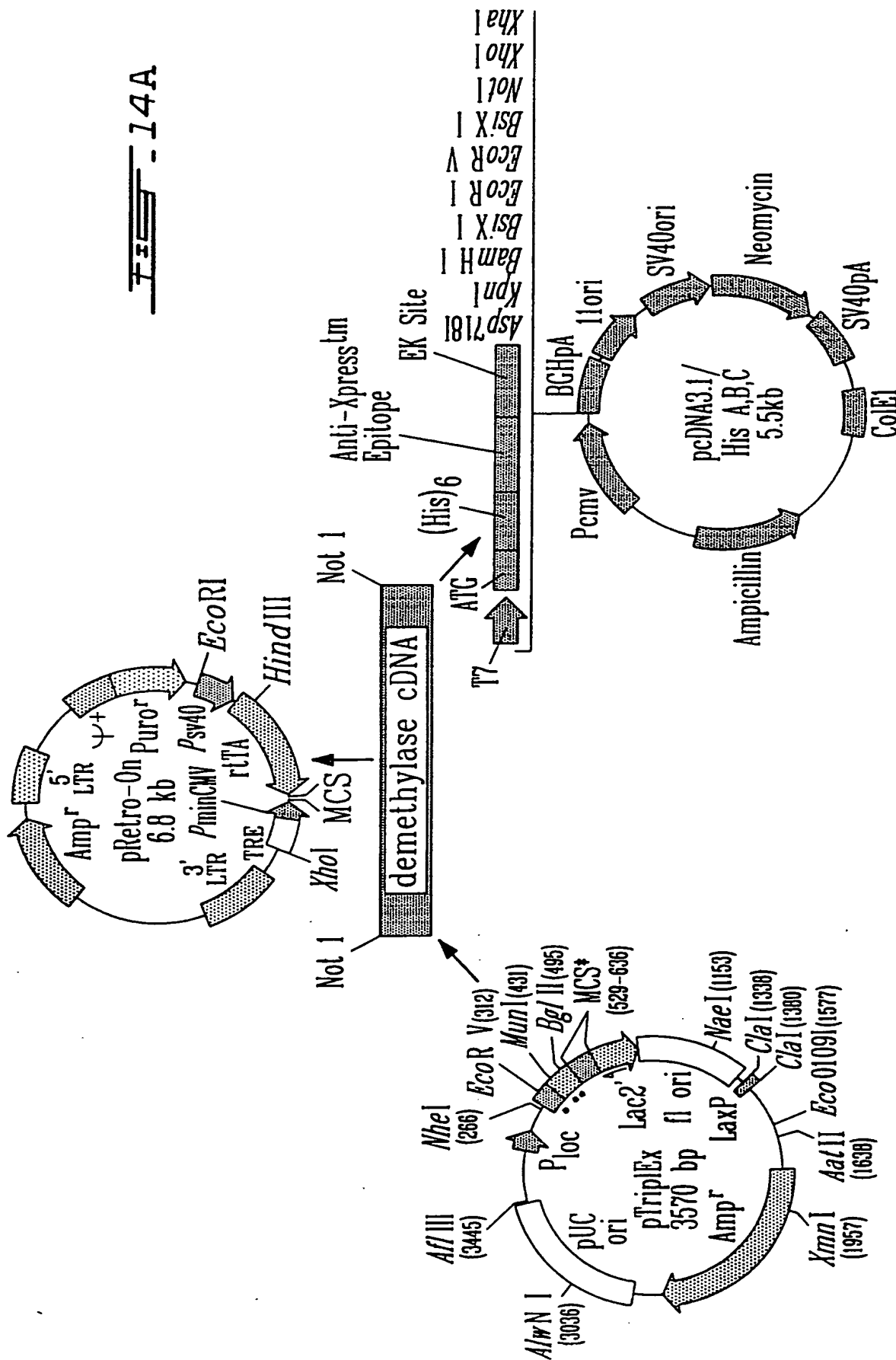
dMTase / 18s



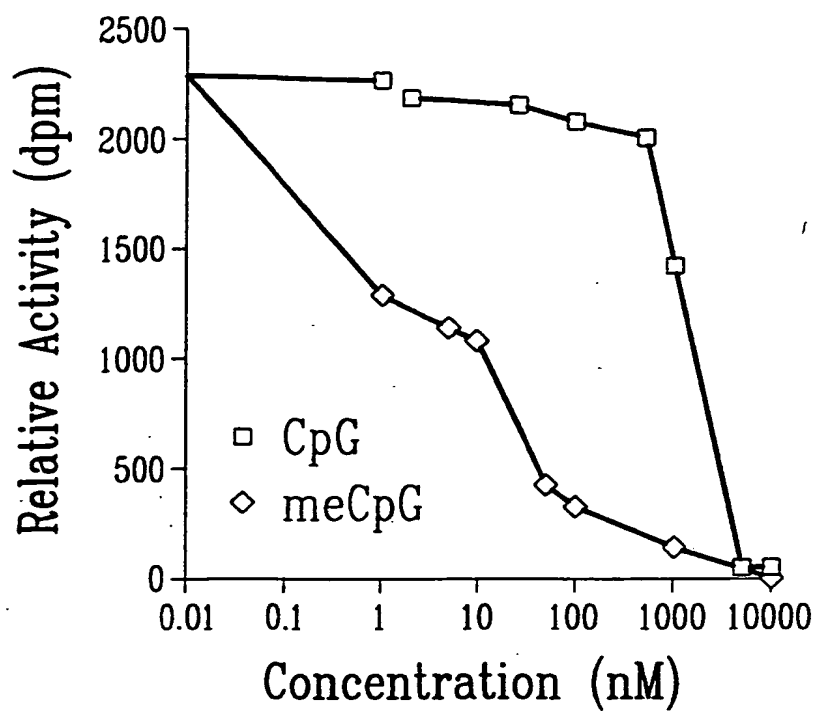
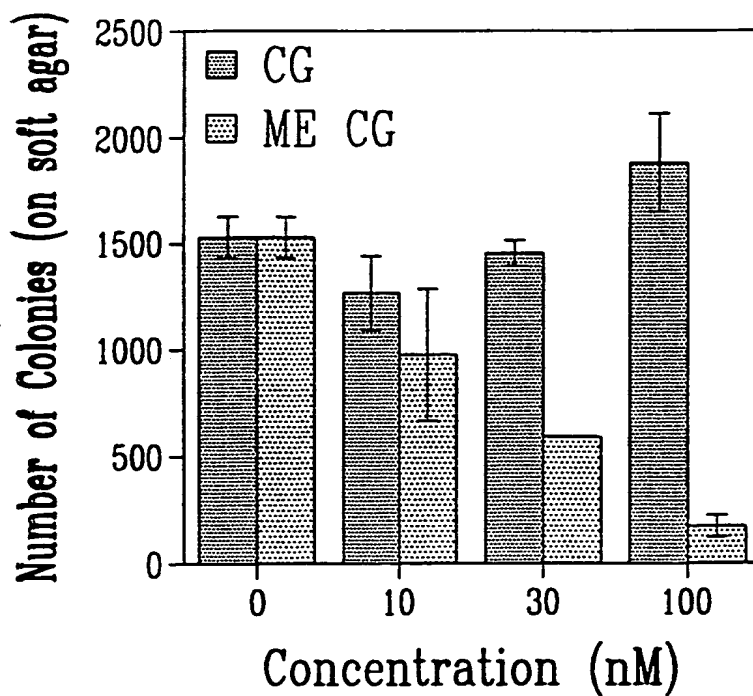
130

46/50

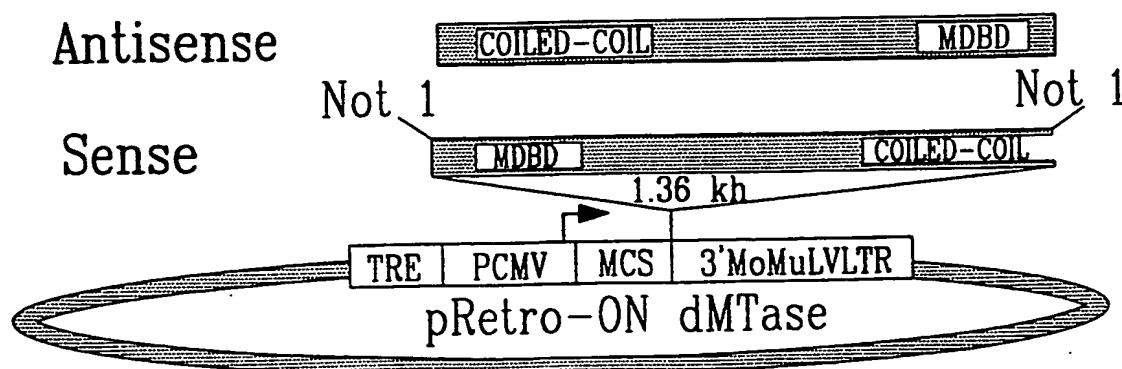
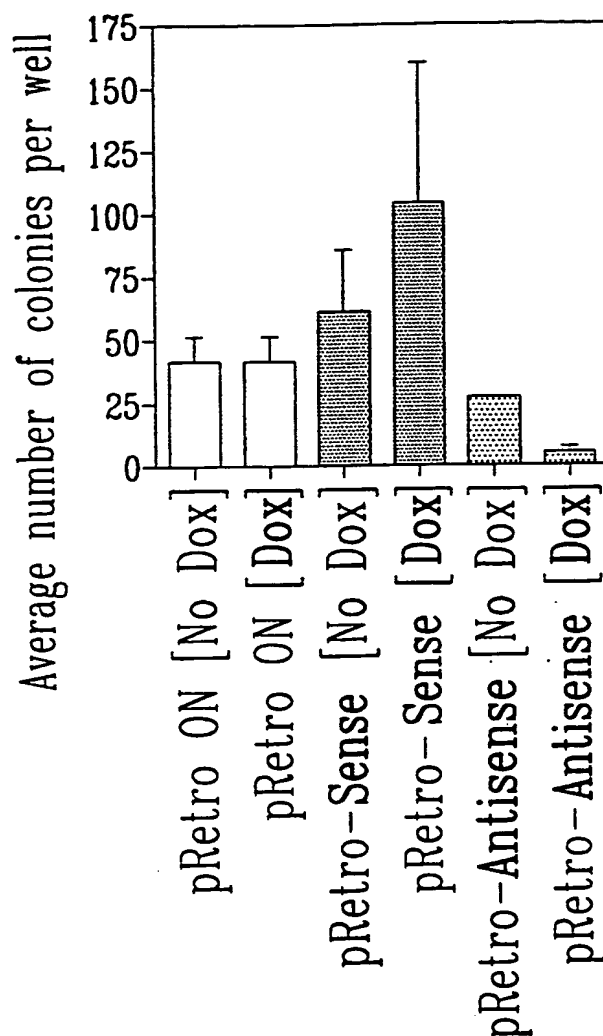
FIG. 14A



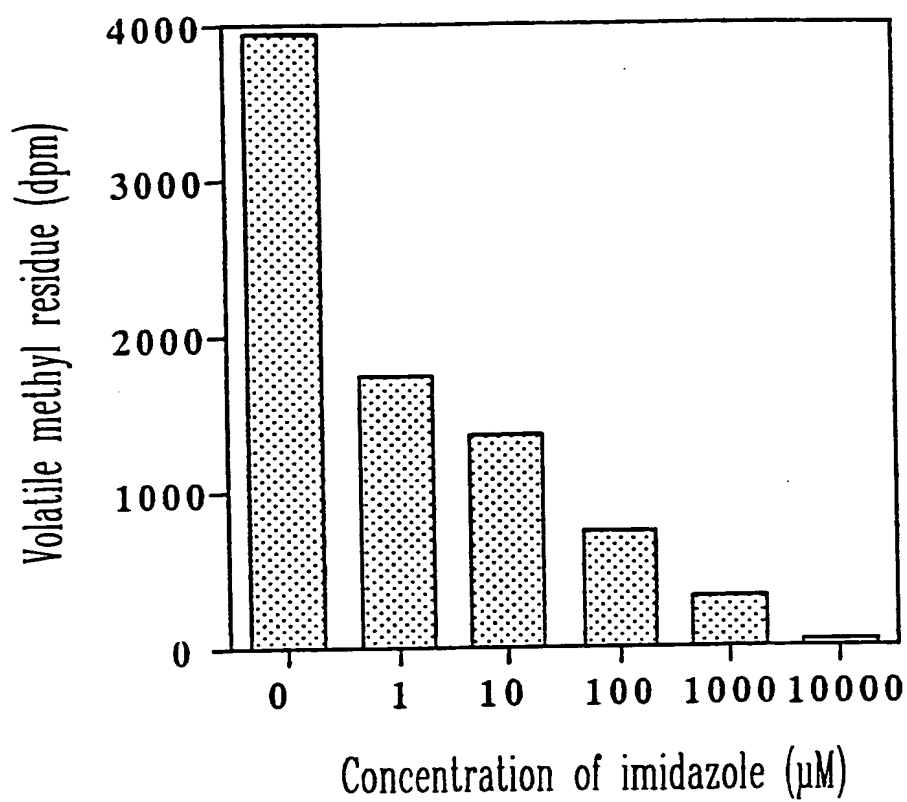
47/50

FIG. 14BFIG. 14C

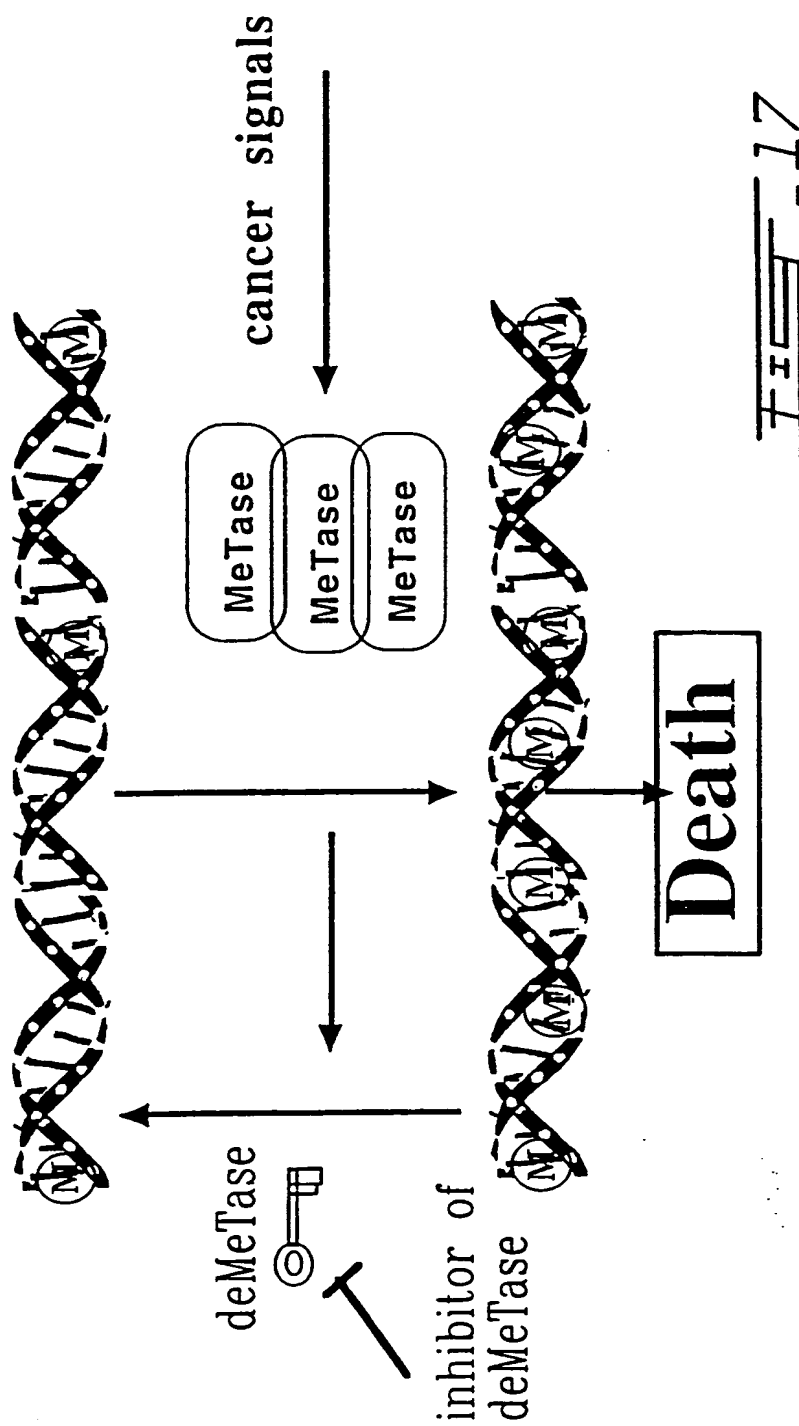
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FIG. 15

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Fig. 16

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FIG - 17